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METEOROLOGICAL DEPARTMENT

MAGNETIC, METEOROLOGICAL AND SEISMOGRAPHIC OBSERVATIONS

MADE AT THE

GOVERNMENT OBSERVATORIES,

BOMBAY AND ALIBAG,

IN THE YEAR

1929

UNDER THE DIRECTION OF

S. K. BANERJI, D.Sc.

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INTRODUCTION.

This volume on the magnetic, meteorological and seismographic observations made at the Government Observatories, Bombay and Alibag, during the year 1929, has been prepared in the same form as the volumes for the years 1927 and 1928. The hourly values of all the important meteorological and magnetic elements have been given and these represent their average values over one hour and not their momentary values at the end of every hour. This volume is the fifty-first volume of its kind issued by the Observatory and extends the records of continuous meteorological and magnetic observations to a period of eighty-four years and of seismographic observations to a period of thirty-one years. The transference of magnetic work from Colaba to Alibag in 1904, due to the city of Bombay having decided to have electric tram service, caused a certain amount of discontinuity in the magnetic records, which had run uninterruptedly then at Colaba for about sixty years, but as comparative observations could be taken at both the stations for a period of two years before the electric tram lines were completed and the service had commenced its operations, the 'discontinuity' could be calculated and allowed for. The comparative observations show that at Alibag, the horizontal component of magnetic force stands lower by 0·00510 C. G. S. unit of force, easterly declination stands higher by 53′·5 and inclination stands higher by 1° 4′·7 than at Colaba, and these are the finally adopted differences between the two sites. The figures published in this volume, like those in the previous volumes since 1906, have not been corrected for these differences.

The Colaba Observatory is situated almost at the extreme south end of the narrow ridge of land extending about three miles to the south-west of the Fort of Bombay and separating the Harbour from the Back Bay. The level of the Observatory compound is about 32 feet above the mean level of the sea. The regular registration of meteorological observations in the Colaba Observatory commenced in November 1841.

The astronomical co-ordinates* giving the position of the Colaba Observatory are :—

Latitude	18° 53′ 36·18″ N.
Longitude	72° 48′ 54·03″ E.

The Alibag Magnetic Observatory is situated on the main land about 18 miles south-south-east of Bombay, and its astronomical co-ordinates are—

Latitude	18° 38′ 17″ N.
Longitude	72° 52′ 21″ E.

For a general description of the buildings and instruments in both the Observatories, see "Magnetical, Meteorological and Seismographic Observations made at the Government Observatories, Bombay and Alibag, 1906—1910," and also the similar volume for 1916—20.

Unless otherwise stated, all times given in this volume refer to local mean time.

Meteorological instruments at Colaba.

1. *Standard Barometer.*—The barometer is by Newman (No. 58) and has been in uninterrupted use since the establishment of the Observatory. It reads on an average 0·004″ below the Kew Standard and 0·012″ below the old Calcutta standard barometer. The height of the barometer is 37 feet above the mean sea-level. A subsidiary standard barometer, Newman No. 48, has also been maintained in the underground constant temperature room, and its reading exceeded that of the standard barometer by 0·002″ on the average during the year.

2. *Barograph.*—The instrument is of the Kew pattern and was installed in the underground constant temperature room in 1872. The variation of pressure is recorded photographically. The barograph has been treated, as in the past, as an independent instrument in respect of the variation of pressure occurring in the course of a day. A comparative study of the differences between the readings of the barograph and of the standard barometer for a large number of years indicates that these differences maintain fairly constant values and do not show variations at different hours of the day. During the year all eye observations of barometer were stopped except at 8 hrs. The mean of the excesses of the eye observations of the standard barometer made at 8 hrs. on seven consecutive days over the corresponding barograph tabulations has been applied as a common correction to all the tabulated hourly readings of the day which is the fourth of the seven.

3. *Standard Dry bulb and Wet bulb Thermometers.*—On the 26th November 1917, the freezing points were tested and the zero of the dry bulb standard thermometer No. 401 was

*Magnetic, Meteorological and Seismographic observations made at the Government Observatories, Bombay and Alibag, 1922, p. 1.

found to have changed from 32°·6 to 33°·0 F. and that of the wet bulb standard thermometer No. 402 from 32°·5 to 33°·0 F. These thermometers were again tested on the 3rd February 1926 and their corrections were found to be the same as those determined in 1917. Besides the above, there are eye reading dry bulb, wet bulb, maximum and minimum thermometers installed in a standard Stevenson Screen and a standard thatched shed. The observations of the thermometers in the thatched shed were discontinued in March 1929. The heights of the bulbs of the thermometers above the ground in different sheds are given below :—

Thermograph Shed ; Dry bulb 10′ ; Wet bulb 10′.
Stevenson Screen ; „ „ 4′ 4½″ ; „ „ 4′ 4″ ; Max. 4′ 11½″ ; Min. 4′ 4″.
Thatched Shed ; „ „ 4′ 8″ ; „ „ 4′ 7½″ ; „ 4′ 0½″ ; „ 3′ 8″.

For the results of comparative observations of these thermometers see p. 2 of the volume for the year 1924.

4. *Kew Dry bulb and Wet bulb Thermograph.*—The bulbs of these thermograph thermometers are placed close to those of the standard dry and wet bulb thermometers in a large double-louvre shed constructed in 1872, and the variation of temperatures is recorded photographically. The tables of air temperature have been obtained from the tabulations of dry bulb and of humidity from dry and wet bulb thermograms. The mean differences between the readings of the standard dry and wet bulb thermometers described in the preceding para. and the corresponding readings of the thermograms for the year 1929 were +0°·2 and +0°·1 respectively and were neglected.

5. *Robinson-Beckley's Anemograph.*—This anemograph is of the kind designed by Robinson, with improvements by Robert Beckley and has been in uninterrupted use in the Observatory since 1867, except that a new instrument of the same pattern and by the same makers was installed in 1907 to replace the old one. It is erected on the Anemometer Tower with its cups at a height of 58 feet above the ground and 100 feet above the mean sea-level. The centres of each pair of opposite hemi-spherical cups are four feet apart, and the diameter of each of the cups is 9 inches. The diameter of the vanes of the direction recorder is 15 inches and the breadth of the fans 4 inches.

6. *Dines' Anemograph, 1897 (velocity).*—The head-vane has been placed on the Anemometer Tower at a distance of 6 feet from the Robinson-Beckley's cups and 6 inches above their level. The comparison of this instrument with a U-tube pressure gauge, showed on the results of a series of experiments, that the relation between W, the difference in level of water in inches in the two arms of the U-tube, which is a measure of the pressure of wind, and V, the velocity of wind in miles per hour as indicated in the Dines' chart, was $W = \cdot00078\ V^2$ instead of $W = \cdot00073\ V^2$, which should have been the relation if the instrument had the correct specification of a standard instrument of this kind. The results showed that this Dines' instrument recorded only 96 per cent. of the true velocity.

The ordinary observations with this instrument were discontinued with effect from the 1st August 1928. It was converted into a quick-run instrument on the 20th August 1928. The speed of the driving clock was increased three-fold, and the papers were consequently shifted thrice during 24 hours. The individual gusts at this speed of the driving clock just became separated from each other and the number of them in a certain interval could be counted easily. The records thus furnished very valuable information regarding gusts at Bombay. After securing a year's record, further observations with this instrument were stopped from the 10th December 1929.

7. *Dines' Anemograph, 1924 (velocity and direction).*—A Dines' anemograph by R. W. Munro and Co. was received in 1923 and installed on the Anemometer Tower in January 1924. With a view to get the best possible exposure, its modern type T-shaped head-vane was placed on the top of a telegraph post, 32·5 feet high, fixed on the Tower at a distance of 3 feet from the cups of the Robinson-Beckley's anemograph. The vane was therefore 27 feet above the level of Robinson-Beckley's cups and 127 feet above the mean sea-level. The diameter of the post near the Beckley's cups is 8 inches and it does not therefore exercise any appreciable influence on the records of Robinson-Beckley. This is due to the fact that in a current of air flowing past a fixed cylindrical obstacle, the stream lines, although they get deformed near the obstacle, assume again very nearly the original configuration at a distance from the obstacle equal to its diameter, and at this distance the velocity of the air current, too, attains almost its original value. The results of a series of comparisons of this instrument with a U-tube pressure-gauge showed that W, the difference in level of water in inches in the two arms of the U-tube, which is a measure of the pressure exerted by the wind, and V, the velocity of the wind in miles per hour as indicated in the charts, practically obey the standard law, namely, $W = \cdot000731\ V^2$.

The height of the vane of this anemometer is 26 feet above that of the old Dines' anemometer. On account of this greater height, this instrument records a larger velocity of wind, and smaller gustiness; the types of records by the two instruments

are however identical. The following table gives the results of the comparative observations during 1924-29 of the three wind instruments.

Ratio of Wind Velocities	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Means. October to February.	Means. March to May.	Means. June to September.	Means. Year.
New Dines to Old Dines (1924-29)	1·55	1·55	1·46	1·49	1·58	1·61	1·84	1·85	1·73	1·63	1·63	1·57	1·59	1·51	1·76	1·63
New Dines to Rob. Beckley. (1924-30)	1·44	1·45	1·36	1·36	1·42	1·47	1·74	1·74	1·64	1·51	1·55	1·46	1·48	1·39	1·51	1·51
Old Dines to Rob. Beckley. (1924-29).	0·95	0·94	0·95	0·94	0·97	0·95	0·95	0·96	0·95	0·94	0·96	0·94	0·95	0·95	0·95	0·95

The hourly values of wind velocity and wind direction tabulated in this volume represent the average of this Dines' records for periods of sixty minutes, from full hour to full hour of local mean time. The daily and hourly mean directions have been derived by converting the hourly velocity into N or S and E or W components and combining the mean components.

8. *Rain-gauge.*—Newman's rain-gauge, which has been in use since 1845, exposes for the collection of rain drops at a height of four feet above the ground a circular surface of an average diameter of 12·035 inches, forming the tip of the funnel, which opens into a cylindrical vessel below, having a diameter of 5·732 inches. Each division of the graduated rod resting on the float represents ·05 inch of rain and the readings of this scale are easily estimated to one-fifth of a division.

9. *Photographic Rain-gauge.*—This instrument takes a continuous record of rainfall by photographing the head of a mercury column balancing the rainfall collected in a glass vessel, with an arrangement for syphon discharge when full. A full description of this instrument will be found in the introduction to the " Bombay Magnetical and Meteorological Observations, 1871 to 1878 ", page xlvi. For methods of reduction of pluviograph records, reference is made to the introduction to the " Bombay Magnetical, Meteorological and Seismographic Observations, 1916-20 ". The height of the receiving funnel of this instrument is 28 feet above the ground. On account of its greater height, the pluviograph gives a lower value for rainfall than that by Newman.

Magnetic Instruments at Alibag.

Variation Instruments.

The horizontal force, vertical force and declination magnetographs in use at Alibag are all by Watson and are mounted on isolated pillars in the magnetograph room. They were maintained in continuous action throughout the year. As explained on pages 1-2, of the observatory volume for 1927, the sensitiveness of the vertical force magnetograph was increased eightfold on the 7th August 1927, by introducing certain alterations in the mechanism for adjusting the position of the centre of gravity of the 'balance'. The instrument worked very satisfactorily throughout the year and furnished excellent records of the changes in the vertical force.

The maximum and minimum temperatures in the magnetograph room during 1929 are shown below in degrees Fahrenheit.

1929.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	year.
	°	°	°	°	°	°	°	°	°	°	°	°	°
Maximum .	83·7	82·5	86·5	89·4	91·5	91·7	88·1	85·9	87·5	88·0	88·0	86·4	91·7
Minimum .	81·5	81·0	82·5	86·6	89·4	88·1	85·4	85·0	85·1	87·5	86·3	82·9	81·0

Two Eschenhagen variometers, one for horizontal force and the other for vertical force, are also installed in the magnetograph room and are read five times every day. A set of Kew Horizontal Force Magnetometer, Kew Vertical Force Magnetometer and

Declination Magnetometer is installed in the ground-floor room of the magnetometer building as auxiliary eye-reading instruments. The declination magnetometer only was read during the year at the five observational hours. The eye observations were regularly plotted and were used mainly for a comparative study of the performance of the different instruments. The magnetograms have been used in deducing the tabulated results. The hourly tabulations represent the average values during one hour, centred at the full hours of Greenwich Mean Time.

The scale coefficients of the force magnetographs were obtained every fortnight from deflection observations performed on the instruments with deflectors, at a distance of 100 cm. and 120 cm. in the case of H and at a distance of 124·05 cm. and 148·6 cm. in the case of V magnetographs. The usual distribution coefficient $(1+\frac{P}{r^3})$ was introduced in the formula for the computation of scale coefficients. It was found that the mean values of the factor in the case of H. F. magnetograph were for both the distances equal to unity and in the case of V. F. magnetograph were 1·07 and 1·05 for the nearer and the longer distances respectively. The value of the scale coefficient adopted for any month is the mean of the mean observed value for that month and those for the preceding and succeeding months.

The following table gives the scale coefficients for 1 cm. ordinate on the photographic paper of the force magnetographs in γ, where as usual, γ =0·00001 C. G. S. unit of force.

Instrument.	January.	February.	March.	April.	May.	June.	July.	August.	September	October.	November.	December.
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
H. F. Magnetograph	45·0	45·0	44·9	45·1	45·1	45·2	45·1	45·1	45·0	45·1	45·1	45·2
V. F. Magnetograph	10·6	10·2	10·3	11·0	11·5	11·3	10·8	10·5	10·7	11·0	11·0	10·9

The scale coefficient of the declination magnetograph for 1 cm. of ordinate is 10′·28·

The temperature co-efficient for the horizontal force magnetograph has been determined by heating experiments and its adopted value is ·000036 in C. G. S. unit for 1° F. The temperature co-efficient of the vertical force magnetograph was found by similar experiments to be negligible as no appreciable change in force, after allowing for the actual diurnal change, could be definitely ascertained as being due to temperature effect. The above conclusions have been checked by an analysis of the observed monthly values of base lines* by means of the formula $B_t=B_m+\alpha\,(t-m)$, where B_t is the monthly mean value of the base line, uncorrected for temperature but corrected for the slow secular change caused by the loss of magnetic moment and other causes, t the mean temperature during the month, B_m the annual mean of the observed values of the base line, m the annual mean temperature of the magnetograph room, and α the temperature co-efficient. Several years' data have been analysed in this manner. The mean value of α for H. F. based on the data for the years 1924-29 is ·000055 in C. G. S. unit for 1°F. The adopted value is thus seen to be smaller by about 33 per cent. than that obtained by this method. but no correction has been introduced in the reduction on account of this difference. For V. F. the value of α appears to be negligible.

Absolute Instruments.

Two magnetometers have been under regular observation during the period for obtaining the absolute values of horizontal force and declination. Magnetometer No. 7 by T. Cooke and Sons, which is the standard instrument at Alibag, is of the ordinary type of Kew pattern instruments but is modified and improved in several important details. The other instrument is Magnetometer No. 3 by the Cambridge Scientific Instrument Company and is of the usual Kew pattern. Instrument No. 7 is observed on the second floor of the magnetometer building, while instrument No. 3 with magnets No. 137 is observed on the first floor and with magnets No. 3 on the second floor.

*Memoirs of the Indian Meteorological Department, Vol. XXV, Part VII.

The value of the correction, $\text{Log}_{10}(1+\frac{P}{r^2}+\frac{Q}{r^4})^{-1}$ used in the reduction of the horizontal force observations was obtained for a given month by taking the mean for seven months including the given month as fourth of the seven. The values of this correction for the different months of the year for the standard instrument at the deflection distance 22·5 cm. were as follows :—

January	.. 9·99326	May	.. 9·99306	September	.. 9·99309
February	.. 9·99320	June	.. 9·99306	October	.. 9·99312
March	.. 9·99312	July	.. 9·99305	November	.. 9·99309
April	.. 9·99308	August	.. 9·99308	December	.. 9·99311

Earth Inductor No. 41 by Schulze of Potsdam and galvanometer No. 200 by Plath are installed on specially constructed pillars in the second floor, while Inductor No. 108 by Otto Toepfer and its galvanometer are installed in the first floor of the magnetometer building. Both these instruments were in regular use.

System of observation at Colaba.

From the begining of 1929, the eye observations of the barometer and thermometers at 10 hrs. and 16 hrs. were stopped but continued to be taken at 8 hrs. An afternoon observation at 17 hrs. Indian Standard Time was however introduced from the 15th November 1929.

The eye observations at 8 hrs. (local time) and 17 hrs. (Indian Standard Time) were taken in the following order :—

From 5 minutes to the hour to 2 minutes after the hour.	Extent and description of clouds, state of weather, occasional phenomena and direction of the wind.
At 2 „ „ „	Thermograph standard thermometer, dry-bulb. Thermograph standard thermometer, wet-bulb.
At 3 „ „ „	Newman's rain-gauge (in wet season).
From 7 to 9 „ „	Newman's standard barometer No. 58 and attached thermometer. Newman's standard barometer No. 48 and attached thermometer (read at 8 hrs. only.)
At 10 „ „ „	Thermometer attached to barograph (read at 8 hrs. only).

Observations of the extent and description of clouds, state of weather, occasional phenomena and rainfall (in wet season) were also taken at 6, 10, 14, 16 and 22 hrs. Observations with nephoscope were taken at 8½, 12½ and 16½ hrs. every day. The maximum and minimum thermometers in the thermometer-sheds were read twice daily at 8 hrs. and 16 hrs.

During the monsoon months, Newman's rain-gauge was read daily at midnight in addition to the usual observations and the discharges of the syphon of the self-registering pluviograph were also read as often as required.

A Campbell-Stokes Sunshine recorder was installed on the balloon observation tower and was brought into regular use from August 1925.

Observations of magnetic declination were made once every month at Colaba about the 15th of each month. The mean of the differences between the observed absolute values of declination at Colaba and Alibag, from 1906 to 1929, is 52'·8, and this agrees fairly well with the value obtained by the comparative observations taken at the two stations in the years, 1904 and 1905.

Time-supply service.

The electric Clock in the Colaba Observatory controlling the drop of the time ball and the Harbour clock was duly regulated every day by comparison with the standard sidereal clocks, two Riefflers and one Kullberg. Government chronometers, belonging to the Royal Indian Marine and the Royal Navy, were wound daily or twice a week as required and comparisons with the standard clock were made with sufficient frequency to render the instruments always ready for issue at call with well determined rates.

Experience during the past few years showed that the time signals broadcasted from Bordeaux, Rugby and Nauen could be received at Bombay almost every day. Further observations of transits of stars were therefore no longer considered necessary. They were accordingly discontinued with effect from the 28th May 1928. The two transit intruments in the Observatory were, however, maintained in a condition so that they could be brought into use any time should the wireless signals fail to be received for any reason. Observations of rhythmic signals broadcasted from Bordeaux and Rugby were taken regularly during the year.

System of observation at Alibag.

Eye observations of the instruments mentioned below were taken daily, Sundays included shortly before 6, 10, 14, 16 and 22 hrs. at the instants specified against them. These instants have been chosen so that they may approach as nearly as possible to the full hour of Greenwich Mean Time, which corresponds to 51 mins. of local time.

At 15 minutes to the hour .	Declination Magnetometer and thermometer in the Magnetometer room.
„ 11 „ „ „ .	Eschenhagen's Vertical Force Variometer and attached thermometer.
„ 10 „ „ „ .	Watson's Vertical Force Magnetograph and attached thermometer.
„ 9 „ „ „ .	Watson's Declination Megnetograph.
„ 8 „ „ „ .	Watson's Horizontal Force Magnetograph and attached thermometer.
„ 7 „ „ „ .	Eschenhagen's Horizontal Force Variometer and attached thermometer.
„ 6 „ „ „ .	Thermograph and the standard thermometer in the Magnetograph room (read twice daily at 6 and 16 hrs. only).

Deflection experiments, with vibration magnet of magnetometer No. 137, the moment of which is determined every fortnight as deflector at distances of 100 cm. and 120 cm. on the horizontal force magnetograph and at distances of 124·05 cm. and 148·6 cm. on the vertical force magnetograph were made once every fortnight. Similar deflection experiments with vibration magnet of magnetometer No. 3 as deflector were made once a month for the purpose of check work.

Deflection experiments, with vibration magnet No. 137 as deflector at a distance of 100 cm. on the Eschenhagen's horizontal force variometer, and at a distance of 75 cm. on the Eschenhagen's vertical force variometer, were also made once a fortnight.

Observations of absolute horizontal force were made with the Observatory standard instrument No. 7 on Wednesdays. Observations of absolute horizontal force were also taken with—

(1) the auxiliary mangetometer No. 3 and magnets No. 137, and

(2) the auxiliary magnetometer No. 3 and magnets No. 3, on alternate Mondays. With the standard magnetometer No. 7 and also with the auxiliary instruments (1) and (2) mentioned above, taken alternately, observations of declination were made every Thursday one after the other. Observations of inclination were made with the Schulze's Inductor, which is the Observatory standard instrument, and another inductor by Otto Toepfer every day in the year with the exception of Sundays and holidays. Each of the two inductor instruments was ordinarily observed on alternate days, but for check work both the instruments were observed one after the other on Saturdays.

Transit observations of stars for the determination of time were made generally on Tuesdays and Fridays in the dry months ; during the monsoon months no opportunity was lost of observing the sun or stars whenever visible. The adjustment of the transit instrument was frequently tested by reference to the fixed collimator mark and by level observations ; the errors of collimation, level and azimuth were determined once every month except during the monsoon months. A complete observation of all the meteorological elements was taken at Alibag at 8 hrs. from the 1st May 1929.

General Review.

1. *Weather.*—The southwest monsoon rains commenced at Bombay on the 1st June and practically ended on the 4th October. The total rainfall recorded during the year amounted to 58·82″ and was 11·72″ below the normal of 72 years. The mean temperature of the year was 80°·4 which was 1°·1 above the normal. The greatest maximum temperature recorded was 96°·5 on the 25th February and the lowest minimum was 53°·2 on the 1st February. This temperature is the lowest on record in the Colaba Observatory. The mean temperature of all the months in year was within 1° of the normal of the season The mean velocity of wind during the year was 11·1 miles per hour. The greatest daily mean velocity was 24·8 miles per hour on the 13th July and the lowest was 5·0 miles per hour on the 20th September. The greatest mean hourly velocity was 30 miles on the 1st July while the velocity of a single gust of wind as recorded by the New Dines' anemometer reached 50 miles per hour on the 8th June.

2. *Magnetic conditions.*—The mean and the extreme values of the magnetic elements at Alibag during 1929 are given below along with the corresponding values for the previous eight years :—

Year.	H						D						V						I
	Mean.	Maximum.		Minimum.		Absolute annual range.	Mean.	Maximum.		Minimum.		Absolute annual range.	Mean.	Maximum.		Minimum.		Absolute annual range.	Mean.
		Value.	Date.	Value.	Date.			Value.	Date.	Value.	Date.			Value.	Date.	Value.	Date.		
	γ	γ		γ		γ	′	′		′		′	γ	γ		γ		γ	° ′
1921	36935	37069	13th May.	36381	15th May.	688	15·9 E.	41·9 E.	15th May.	9·5 E.	7th July.	32·4	17227	17320	15th May	17144	20th Jan.	176	25 0·?
1922	36946	37037	10th Mar.	36777	14th Sept.	260	12·6 E.	18·0 E.	16th Feb.	6·6 E.	31st Aug.	11·4	17293	17351	12th Aug.	17222	5th Apr.	129	25 5·0
1923	36985	37071	27th Nov.	36854	24th Mar.	217	8·9 E.	13·6 E.	26th Jan.	3·6 E.	24th Sept.	10·0	17372	17432	3rd July.	17270	25th Jan.	162	25 9·6
1924	37029	37142	16th Oct.	36854	10th June	288	5·6 E.	10·5 E.	29th Jan.	0·4 E.	15th Sept.	10·1	17452	17514	26th Dec.	17379	19th Jan.	135	25 14·1
1925	37065	37170	9th Mar.	36899	28th Dec.	271	3·4 E.	8·2 E.	24th May	2·0 W.	4th Sept.	10·2	17527	17589	25th Dec.	17421	21st Jan.	168	25 18·5
1926	37079	37227	26th Jan.	36755	15th Apr.	472	0·8 E.	9·9 E.	15th Apr.	4·9 W.	24th Aug.	14·8	17590	17654	15th Oct.	17504	4th Jan.	150	25 22·7
1927	37119	37350	22nd Oct.	36802	12th Oct.	548	1·9 W.	6·0 E.	22nd July.	8·6 W.	21st Aug.	14·6	17650	17710	24th Sept.	17565	14th Sept.	145	25 25·9
1928	37152	37463	7th July	36718	8th July	745	3·8 W.	11·6 E.	8th July	9·0 W.	19th Sept	20·6	17698	17778	28th May	17608	30th April	170	25 28·3
1929	37209	37316	11th Aug.	36988	12th Mar.	328	5·9 W.	0·5 W.	16th Apr.	11·1 W.	5th Sept.	10·6	17736	17797	24th Nov.	17655	29th Jan.	142	25 29·1

The value of H has been steadily increasing since 1916. The increase from 1928 to 1929 is 57γ and is slightly greater than the average rate of increase, namely 32γ, during the last 10 years. Declination diminished during the year at a rate which is slightly smaller than the mean of the last ten years. Both the vertical force and the inclination showed, as usual, a gradual increase.

The following table gives the character figure assigned to each day according to the international scheme. In 1924, De Bilt issued a circular letter explaining a certain definite procedure to be followed in assigning a character figure to each day. The figures given below have consequently been deduced from a study of the departure of each day's range from the normal range for the day supplemented by an eye examination of the magnetograms.

Month.	"0" days.	"1" days.	"2" days.	Mean character figure.
1929.				
January . .	1, 2, 7, 12, 13, 15, 16, 17, 18, 19, 22, 23, 24, 25, 26, 27, 28, 30, 31.	3, 6, 8, 10, 11, 20, 21, 29, . .	4, 5, 9, 14. .	0·52
February .	2, 4, 5, 12, 13, 14, 15, 20, 21, 24 .	1, 3, 7, 10, 11, 19, 22, 23, 25, 26.	6, 8, 9, 16, 17, 18, 27, 28.	0·93
March . .	2, 4, 6, 10, 18, 19, 25, 26, 29, 30, 31 .	1, 3, 7, 9, 14, 17, 20, 23, 24, 27, 28.	5, 8, 11, 12, 13, 15, 16, 21 22.	0·94
April . .	2, 3, 6, 7, 8, 9, 10, 12, 13, 14, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27.	1, 5, 11, 15, 28, 29 . . .	4, 16, 17, 30.	0·47
May . . .	4, 5, 6, 7, 8, 9, 10, 11, 17, 18, 19, 20, 21, 22, 25, 26, 27.	1, 2, 3, 12, 16, 24, 29, 30, 31. .	13, 14, 15, 23, 28.	0·61
June . .	3, 4, 5, 6, 7, 13, 14, 16, 17, 18, 19, 20, 21, 25, 26, 27, 29.	1, 2, 8, 9, 11, 12, 15, 22, 23, 24, 28, 30.	10.	0·47
July . .	3, 4, 7, 8, 9, 12, 13, 18, 19, 23, 24, 25, 26, 27, 28, 29, 30, 31.	1, 2, 6, 11, 14, 20, 21, 22 .	5, 10, 15, 16, 17.	0·58
August . .	3, 4, 6, 7, 8, 9, 10, 13, 20, 21, 23, 24, 25, 26, 28, 29, 30, 31.	5, 12, 16, 17, 22, 27 . . .	1, 2, 11, 14, 15, 18, 19.	0·65
September .	1, 2, 3, 4, 5, 6, 17, 18, 19, 24, 28, 29 .	8, 9, 13, 15, 16, 20, 21, 23, 25, 26, 30.	7, 10, 11, 12, 14, 22, 27.	0·83
October . .	1, 2, 3, 5, 6, 11, 14, 15, 21, 22, 23, 25, 26 27, 28.	4, 10, 12, 13, 19, 20, 24, 29, 31.	7, 8, 9, 16, 17, 18, 30.	0·74
November .	10, 11, 12, 13, 14, 18, 19, 22, 23, 24, 25, 28, 29, 30.	2, 4, 5, 6, 7, 8, 15, 17, 20, 21, 26, 27.	1, 3, 9, 16.	0·67
December .	1, 2, 9, 13, 14, 15, 19, 20, 21, 25, 26, 27, 28, 29, 30.	4, 5, 6, 7, 8, 10, 11, 12, 18, 23, 24, 31.	3, 16, 17, 22	0·65

The annual mean character figure, as assigned by the Observatory, to the year 1929 is 0·67, while that assigned to the year 1928 is ·73. The corresponding De Bilt figures are 0·67 and 0·65 respectively. The magnetic activity of the year 1929 is slightly less than that of the year 1928, which was the sunspot maximum year. March was the most active and April and June the most inactive months in the year.

Absolute observations and Base Line Values.

Declination.

Absolute observations of declination were made once a week on Thursdays with the standard magnetometer No. 7. For comparative purposes, an observation of declination was taken immediately afterwards with the auxiliary magnetometer, No. 3 and with magnets No. 3 and 137 on alternate weeks.

Base-line values are derived by converting the ordinates corresponding to absolute observations with instrument No. 7 into angles and subtracting the converted ordinates from the observed absolute declination. The values so obtained of the base-lines of the declination magnetograph denote westerly declination.

The adopted values are derived by taking overlapping means of 5 successive observations and reducing them to the proper epoch, values for intermediate days being obtained by simple interpolation.

Declination base-line values, 1929.

Date.	Observed.	Adopted.	Date.	Observed.	Adopted.	Date.	Observed.	Adopted.
	′	′		′	′		′	′
January 3 .	71·0 W	70·9 W	May 2 .	69·6 W	69·8 W	September 5	69·6 W	69·5 W
„ 10 .	71·0	71·0	„ 9 .	69·3	69·6	„ 12 .	69·6	69·8
„ 17 .	70·9	71·0	„ 16 .	70·0	69·5	„ 19 .	70·1	69·7
„ 24 .	71·1	71·1	„ 23 .	69·5	69·4	„ 26 .	70·0	69·8
„ 31 .	71·1	71·1	„ 30 .	69·1	69·3	October 3 .	69·2	69·9
February 7 .	71·2	71·2	June 6 .	69·1	69·2	„ 10 .	70·1	69·8
„ 14 .	71·0	71·2	„ 13 .	68·9	69·1	„ 17 .	69·9	69·8
„ 22 .	71·5	71·1	„ 20 .	69·3	69·1	„ 24 .	69·7	70·0
„ 28 .	71·2	71·1	„ 27 .	69·2	69·1	„ 30 .	70·2	70·0
March 7 .	70·8	71·1	July 4 .	69·1	69·2	November 7 .	70·1	69·9
„ 14 .	71·1	71·1	„ 11 .	68·9	69·1	„ 14 .	70·0	69·8
„ 21 .	71·1	70·9	„ 18 .	69·3	69·0	„ 21 .	69·7	69·6
„ 28 .	71·1	70·9	„ 25 .	68·9	68·9	„ 28 .	69·0	69·4
April 4	70·5	70·7	August 3 .	68·7	68·8	December 5 .	69·4	69·3
„ 11 .	70·6	70·5	„ 8 .	68·6	68·7	„ 12 .	69·1	69·2
„ 18 .	70·4	70·2	„ 17 .	68·4	68·8	„ 19 .	69·4	69·3
„ 25 .	69·8	69·9	„ 22 .	68·7	69·0	„ 26 .	69·1	69·4
			„ 28 .	69·5	69·1			

Horizontal Force.

Absolute observations of horizontal force were made twice a week, on Mondays with instrument No. 3 and with magnets No. 3 and No. 137 alternately and on Wednesdays with instrument No. 7. A day's observations comprise a double set of vibration and deflection experiments at three distances, which for No. 7 are 22·5 cm. 30 cm. and 40 cm. In calculating the base-line values the mean of the observed values at all the three distances has been used.

Base-line values are derived by converting the mean ordinates corresponding to absolute observations with instrument No. 7 in terms of γ and subtracting the converted ordinates from the mean observed absolute horizontal force. They are further reduced to a uniform temperature of 85° F. to make the series comparable from month to month and year to year.

The adopted values are derived by taking overlapping means of 5 successive double sets of observations and reducing them to the proper epoch, values for intermediate days being obtained by simple interpolation.

Horizontal force base-line values at 85° F. 1929.

Date.	Observed.	Adopted.	Date.	Observed.	Adopted.	Date.	Observed.	Adopted.
	γ	γ		γ	γ		γ	γ
January 2 .	36,867	36,867	May 1 .	36,888	36,891	September 4 .	36,883	36,886
„ 9 .	867	869	„ 8 .	885	890	„ 11 .	885	887
„ 16 .	870	866	„ 16 .	890	891	„ 18 .	889	888
„ 23 .	868	865	„ 22 .	895	891	„ 25 .	889	888
„ 30 .	858	865	„ 29 .	898	894	October 2 .	894	888
February 6 .	863	863	June 5 .	888	895	„ 9 .	882	889
„ 13 .	866	863	„ 12 .	900	894	„ 16 .	887	889
„ 21 .	860	869	„ 19 .	894	891	„ 23 .	894	887
„ 27 .	869	873	„ 26 .	890	890	„ 30 .	889	890
March 6 .	884	876	July 3 .	882	888	November 6 .	885	890
„ 13 .	884	881	„ 10 .	885	887	„ 13 .	895	888
„ 20 .	885	884	„ 17 .	888	883	„ 20 .	887	887
„ 27 .	882	883	„ 24 .	888	884	„ 27 .	884	889
April 3 .	887	886	„ 31 .	874	8 4	December 4 .	885	887
„ 10 .	879	887	August 7 .	886	884	„ 11 .	891	885
„ 18 .	897	889	„ 14 .	882	883	„ 18 .	886	885
„ 24 .	892	888	„ 21 .	887	885	„ 25 .	881	886
			„ 28 .	887	885			

Vertical Force.

Dip observations with inductors were made every day in the year, with the exception of Sundays and holidays, each of the two inductor instruments being observed on alternate days.

Base-line values are derived by expressing the mean ordinates of V. F. magnetogram corresponding to the inclination observations in terms of γ and subtracting the converted ordinates from the absolute vertical force obtained by multiplying the value of H. F. at the time by the tangent of inclination given by Inductor observations. Values derived from Inductor No. 108 are reduced to those derived from Inductor No. 41 (which is the Observatory standard) by applying the mean correction for the month deduced from the comparative observations taken on Saturdays of every week.

The adopted values are derived by taking overlapping means of 7 successive observations and reducing them to the proper epoch, values for those days not given by this operation being obtained by simple interpolation.

The vertical force magnetograph was adjusted on the 30th August 1929 and 24th November 1929. As already remarked the sensitiveness of the instrument increased eight times in consequence of the change introduced on the 7th August 1927 in the mechanism for altering the sensitiveness.

Vertical force base-line values, 1929.

Date.	Observed.	Adopted.	Date.	Observed.	Adopted.	Date.	Observed.	Adopted.
	γ	γ		γ	γ		γ	γ
January 2 .	17,657	17,684	May 1 .	17,723	17,681	September 4 .	17,728	17,718*
„ 9 .	678	676	„ 8 .	655	651	„ 11 .	680	687
„ 16 .	718	693	„ 16 .	652	653	„ 18 .	714	719
„ 23 .	655	676	„ 22 .	668	663	„ 25 .	716	718
„ 30 .	674	676	„ 29 .	688	682	October 2 .	669	672
February 5 .	698	688	June 5 .	666	683	„ 9 .	662	670
„ 13 .	716	715	„ 12 .	679	690	„ 16 .	657	659
„ 20 .	690	715	„ 19 .	692	706	„ 23 .	662	639
„ 27 .	732	718	„ 26 .	731	731	„ 30 .	635	634
March 6 .	713	714	July 3 .	750	749	November 6 .	610	642
„ 13 .	733	727	„ 10 .	747	750	„ 13 .	679	669
„ 20 .	753	730	„ 17 .	768	765	„ 20 .	659	660
„ 27 .	740	714	„ 24 .	797	788	„ 27 .	654	653*
April 3 .	702	688	„ 31 .	757	768	December 4 .	663	672
„ 10 .	682	677	August 7 .	754	760	„ 11 .	701	692
„ 18 .	677	666	„ 13 .	759	755	„ 18 .	672	675
„ 24 .	646	648	„ 21 .	760	746	„ 25 .	651	674
			„ 28 .	747	746			

* Adjustment of V. F. magnetograph.

Seismographs.

The Milne-Shaw Seismograph (N-S component), which was kept in continuous action in the underground constant temperature room, gave very satisfactory records of earthquakes and microseisms during the year. The earthquakes recorded by this instrument will be found tabulated towards the end of the volume. The locally constructed seismograph of the Omori type (N-S and E-W components) was kept in continuous operation during the year as an auxiliary instrument. The Omori-Ewing Seismograph (E-W component) was maintained in good condition, but was not kept in continuous action throughout the year.

Magnetic Storms.

In plates I, II, III, IV and V are reproduced disturbed magnetic records for days recommended for publication by the International Commission of Terrestrial Magnetism. The base-line values and scale coefficients are shown with each curve. The hourly breaks last for 2 to 3 minutes and the time shown against a break is the time for the middle of the break expressed in Greenwich Mean Time. Increasing ordinates for H. F. and V. F. curves mean increase in force, and for the declination curves decrease of westerly declination.

Atmospheric Electricity.

Observations of the variation in the potential gradient were started during the year. For this purpose two Bendorf self-recording electrometers were installed. One of these was joined to a double-nozzle Kew pattern water-dropper and the other to an ionium collector supplied by the Carnegie Institution of Washington. The results will be published in due course.

S. K. BANERJI,
Meteorologist, Bombay.

Colaba Observatory, Bombay,
The 23rd May, 1931.

Meteorological Tables.

(Colaba Observatory.)

JANUARY. (Averages for periods of sixty minutes from full hour to full hour of local mean time.)

(IN INCHES OF MERCURY AT 32° F.)

Date.	Hours.													
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13	13—14
1	29·940	29·932	29·921	29·920	29·923	29·936	29·950	29·972	30·000	30·000	29·990	29·966	29·932	29·902
2	·912	·900	·899	·891	·909	·906	·928	·942	29·983	29·985	·979	·948	·922	·890
3	·944	·927	·921	·910	·917	·926	·950	·967	30·000	30·002	·995	·964	·927	·890
4	·922	·901	·897	·890	·896	·897	·928	·946	29·982	29·983	·990	·962	·932	·895
5	·946	·926	·919	·908	·912	·913	·936	·948	·982	·986	·986	·956	·922	·888
6	·950	·930	·922	·916	·927	·934	·962	·979	30·018	30·019	30·025	·998	·969	·930
7	·991	·977	·969	·961	·968	·971	·993	30·001	·034	·035	·034	30·004	·980	·943
8	·966	·951	·942	·931	·941	·946	·981	29·994	·028	·034	·027	29·997	·970	·937
9	·974	·950	·951	·938	·957	·962	·991	30·017	·046	·049	·059	30·031	30·005	·972
10	30·028	30·011	30·002	·983	·996	·997	30·014	·032	**·070**	·069	·064	·037	·008	·972
11	29·996	29·976	29·975	·968	·980	·986	·010	·029	·057	·055	·048	·017	29·992	·950
12	·998	·982	·981	·966	·975	·981	·009	·027	·057	·059	·052	·023	·993	·959
13	·971	·951	·949	·936	·957	·957	29·979	29·993	·024	·025	·021	29·997	·960	·919
14	·955	·934	·922	·905	·919	·922	·942	·959	29·998	·001	29·994	·964	·943	·913
15	·931	·914	·912	·899	·914	·920	·942	·966	·994	29·993	·979	·947	·917	·892
16	·904	·896	·896	·885	·894	·896	·923	·939	·970	·968	·971	·942	·916	·882
17	·909	·899	·899	·889	·892	·896	·920	·929	·956	·950	·946	·929	·901	·880
18	·960	·942	·938	·937	·943	·948	·974	·992	30·026	30·029	30·028	30·005	·981	·950
19	·979	·965	·954	·933	·934	·934	·944	·958	29·985	29·985	29·984	29·952	·926	·901
20	·905	·893	·890	·877	·893	·897	·928	·945	·983	·988	·992	·958	·936	·898
21	·923	·913	·909	·903	·906	·919	·951	·973	30·010	30·013	30·011	·981	·957	·913
22	·955	·945	·941	·931	·930	·935	·967	·991	·024	·023	·017	·987	·963	·933
23	·946	·927	·921	·909	·923	·926	·947	·967	29·995	·001	29·993	·961	·936	·891
24	·917	·902	·896	·881	·889	·890	·908	·920	·958	29·962	·957	·934	·917	·890
25	·902	·900	·896	·882	·904	·902	·930	·938	·973	·978	·978	·958	·930	·909
26	·931	·920	·913	·908	·911	·924	·938	·958	·990	·997	·988	·965	·934	·913
27	·922	·908	·905	·890	·890	·890	·910	·922	·949	·957	·957	·928	·906	·882
28	·900	·884	·876	·876	·898	·904	·923	·940	·968	·973	·956	·927	·905	·878
29	·922	·908	908	·904	·910	·918	·948	·963	30·006	30·000	·991	·962	·925	·910
30	·939	·929	·920	·911	·929	·940	·974	·995	·023	·009	·981	·981	·959	·940
31	·952	·940	·933	·933	·941	·940	·970	·982	·014	·022	30·016	·994	·948	·920
Mean.	29·945	29·930	29·925	29·915	29·925	29·929	29·954	29·970	30·003	**30·005**	30·000	29·973	29·946	29·914
Variation.	+·002	—·013	—·018	—·028	—·018	—·014	+·011	+·027	+·060	**+·062**	+·057	+·030	+·003	—·029

FEBRUARY.

1	29·913	29·899	29·886	29·872	29·882	29·890	29·906	29·912	29·950	29·948	29·950	29·917	29·880	29·840
2	·831	·819	·815	·795	·791	·795	·819	·833	·871	·872	·871	·850	·821	·792
3	·812	·797	·784	·778	·788	·790	·819	·833	·868	·875	·880	·874	·850	·825
4	·857	·842	·836	·834	·836	·837	·866	·886	·924	·930	·931	·907	·884	·860
5	·887	·877	·864	·850	·850	·866	·894	·901	·926	·928	·924	·908	·885	·852
6	·863	·851	·837	·821	·826	·829	·856	·875	·899	·909	·905	·885	·858	·834
7	·869	·853	·842	·823	·831	·840	·870	·886	·917	·935	·931	·914	·894	·862
8	·906	·894	·878	·874	·884	·884	·908	·924	·962	·982	·992	·968	·952	·908
9	·944	·932	·925	·920	·924	·932	·954	·972	30·004	30·012	30·008	·982	·964	·932
10	·932	·924	·920	·912	·920	·926	·942	·954	29·982	29·992	29·980	·950	·930	·888
11	·888	·872	·872	·864	·874	·882	·904	·920	·954	·964	·960	·932	·914	·876
12	·849	·845	·843	·833	·839	·859	·885	·895	·931	·935	·933	·913	·889	·855
13	·926	·912	·895	·892	·900	·897	·929	·946	·976	·982	·970	·950	·931	·912
14	·933	·917	·923	·913	·923	·923	·959	·973	30·010	**30·019**	30·013	·985	·965	·926
15	·913	·903	·885	·883	·895	·903	·924	·934	29·963	29·965	29·962	·944	·921	·887
16	·919	·912	·899	·890	·901	·905	·925	·935	·997	·977	·972	·953	·927	·901
17	·925	·913	·907	·901	·905	·913	·943	·951	·975	·975	·979	·961	·937	·913
18	·942	·925	·913	·913	·926	·933	·963	·973	30·008	30·010	30·003	·973	·953	·917
19	·929	·915	·912	·903	·912	·918	·946	·962	29·981	29·980	29·975	·950	·928	·904
20	·907	·892	·876	·864	·870	·874	·890	·904	·926	·922	·920	·896	·878	·854
21	·899	·878	·863	·845	·850	·856	·878	·898	·929	·930	·934	·912	·887	·853
22	·927	·910	·897	·881	·893	·901	·929	·951	·973	·981	·981	·951	·926	·885
23	·901	·892	·881	·871	·879	·887	·912	·927	·949	·953	·950	·929	·910	·885
24	·888	·870	·880	·859	·872	·878	·908	·926	·952	·950	·948	·922	·898	·877
25	·886	·871	·867	·860	·879	·890	·916	·926	·957	·964	·955	·933	·908	·875
26	·924	·898	·885	·874	·879	·886	·910	·924	·956	·956	·954	·928	·908	·876
27	·915	·897	·877	·865	·875	·885	·911	·915	·947	·955	·942	·929	·893	·865
28	·862	·851	·841	·835	·843	·853	·883	·893	·929	·929	·927	·907	·883	·853
Mean.	29·898	29·884	29·875	29·865	29·873	29·880	29·905	29·919	29·949	**29·955**	29·952	29·929	29·906	29·875
Variation.	+·003	—·011	—·020	—·030	—·022	—·015	+·010	+·024	+·054	**+·060**	+·057	+·034	+·011	—·020

JANUARY. (Averages for periods of sixty minutes from full hour to full hour of local mean time.)

(IN INCHES OF MERCURY AT 32° F.)

Hours.										Mean.	Maximum.		Minimum.		Date.
14—15	15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24		Time.	Mag.	Time.	Mag.	
											H. M.		H. M.		
29·890	29·873	29·883	29·883	29·906	29·915	29·946	29·938	29·933	29·915	29·932	9 5	30·006	16 35	29·872	1
·889	·876	·886	·896	·921	·940	·963	·964	·958	·952	·926	8 42	29·987	15 12	·875	2
·876	·856	·873	·875	·896	·905	·936	·936	·937	·927	·927	9 17	30·008	16 5	·855	3
·882	·866	·873	·877	·908	·925	·953	·955	·964	·945	·923	8 40	29·992	16 30	·864	4
·866	**·855**	·871	·880	·908	·925	·947	·943	·959	·950	·926	9 15	·989	15 35	·853	5
·912	·903	·914	·923	·951	·970	·993	30·000	30·005	·987	·960	8 45	30·027	15 15	·901	6
·931	·920	·925	·930	·951	·961	·985	29·984	29·992	·967	·975	9 0	·036	16 45	·916	7
·925	·909	·920	·929	·961	·976	30·000	30·000	·999	·978	·968	9 0	·037	15 13	·907	8
·970	·955	·966	·971	30·008	30·029	·054	·053	30·049	30·032	30·000	9 0	·061	3 30	·937	9
·965	·953	·967	·974	29·999	·003	·021	·021	·021	·006	·009	8 35	**·073**	16 0	·951	10
·936	·930	·938	·948	·970	29·983	·012	·015	·015	·001	29·991	9 0	·062	15 50	·928	11
·942	·930	·935	·940	·960	·970	29·985	29·989	29·999	29·978	·987	9 12	·063	16 0	·927	12
·911	·902	·923	·930	·955	·960	·984	·982	·978	·959	·963	9 15	·029	15 0	·897	13
·901	·884	·895	·905	·926	·932	·953	·949	·942	·929	·937	8 45	·007	16 0	·883	14
·878	·869	·883	·882	·901	·915	·922	·919	·918	·907	·921	8 55	29·997	16 45	·867	15
·880	·876	·888	·895	·916	·920	·933	·931	·930	·914	·915	8 30	·972	15 10	·872	16
·874	·871	·881	·893	·928	·946	·970	·973	·973	·959	.919	21 10	·978	14 50	·870	17
·946	·944	·952	·953	·973	·980	·989	·990	·987	·975	·973	9 5	30.031	3 0	·933	18
·876	·861	·868	·868	·894	·899	·915	·913	·915	·905	.927	8 50	29·990	16 36	·860	19
·876	·864	·878	·876	·902	·917	·930	·929	·933	·922	·917	8 55	·993	15 30	·861	20
·906	·894	·900	·898	·917	·933	·960	·966	·974	·957	·941	9 0	30·017	16 5	·893	21
·919	894	·897	·903	·914	·931	·959	·959	·957	·951	·951	8 45	·028	16 20	·892	22
·876	·866	·880	·884	·908	·918	·944	·944	·938	·928	·930	9 5	·006	16 0	·864	23
·875	·861	·865	·865	·890	·897	·919	·918	·920	·910	**.906**	3 40	29·964	16 55	·858	24
·892	·872	·880	·890	·913	·914	·940	·940	·942	·938	·921	9 0	·983	16 35	.870	25
·904	·896	·902	·902	·916	·924	·942	·948	·938	·920	·933	8 55	30·002	16 30	**·894**	26
·871	·868	·879	·880	·902	·910	·914	·908	·910	·905	·907	19 55	29·964	15 50	·866	27
·868	·862	·876	·882	·904	·916	·926	·926	·924	·923	**·909**	9 10	·980	15 20	**·860**	28
·893	·882	·898	·900	·919	·928	·947	·948	·950	·940	·932	8 45	30·008	4 0	·880	29
·907	·903	·910	·911	·943	·954	·968	·968	·966	·959	·951	8 0	·029	15 10	·899	30
·900	·888	·892	·890	·918	·920	·941	·941	·940	·922	·944	8 15	·030	16 30	·886	31
29.901	**29,890**	29·900	29·904	29·928	29·939	29·960	29·960	29·960	29·947	29·943					Mean.
—·042	**—·053**	—·043	—·030	—·015	—·004	+·017	+·017	+·017	+·004						Variation.

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29·820	29·810	29·816	29·819	29·841	29·850	29·860	29.850	29·850	29·840	29·875	8 50	29·956	15 30	29·808	1
·768	**·753**	·762	·761	·793	·807	·830	·837	·831	·818	**·814**	9 30	·877	15 20	**·749**	2
·810	·800	·810	·806	·829	·842	·878	·883	·887	·872	·833	21 20	·890	3 5	·776	3
·846	·830	·844	·853	·874	·876	·904	·904	·904	·900	·874	9 5	·934	3 50	·828	4
·830	·812	·830	·829	·843	·858	·884	·892	·892	·875	·873	9 0	·934	15 45	·808	5
·804	·782	·799	·799	·829	·843	·869	·883	·889	·873	·851	9 30	·917	15 45	·781	6
·846	·831	·841	·847	·875	·881	·895	·901	·907	·911	·875	9 30	·941	4 0	·819	7
·882	·872	·882	·882	·909	·912	·922	·944	·948	·944	·917	9 42	·996	15 40	·868	8
·906	·888	·892	·894	·910	·922	·943	·946	·950	·936	**·941**	9 20	30·018	16 34	·882	9
·863	·848	·848	·852	·876	·883	·902	·902	·903	·893	·913	9 7	29·998	16 40	·842	10
·854	·836	·830	·836	·848	·852	·868	·868	·874	·854	·883	9 20	·966	16 32	·822	11
·837	·823	·841	·847	·883	·905	·943	·951	·956	·951	·885	21 35	·959	14 15	·819	12
·892	·883	·886	·896	·913	·923	·943	·944	·950	·944	·925	9 5	·988	16 52	·882	13
·906	·888	·895	·895	·907	·921	·943	·943	·943	·925	·939	9 5	**30·023**	16 30	·883	14
·871	·863	·857	·865	·895	·907	·942	·953	·949	·927	·913	9 10	29·973	16 37	·853	15
·871	·855	·861	·861	·889	·901	·937	·943	·953	·937	·916	9 30	·983	16 45	·853	16
·898	·886	·901	·901	·923	·938	·953	·959	·955	·947	·932	9 15	·987	16 0	·883	17
·899	·881	**·885**	·889	·913	·924	·944	·949	·955	·935	·939	9 5	30·013	16 35	·879	18
·887	·870	·881	·881	·892	·893	·914	·923	·928	·924	·921	8 50	29·990	16 12	·866	19
·830	·810	·822	·824	·848	·871	·902	·906	·920	·908	·880	8 0	·928	16 30	·808	20
·836	·826	·840	·855	·884	·904	·937	·946	·946	·938	·889	21 5	·952	15 35	·824	21
·863	·837	·849	·849	·872	·880	·911	·911	·909	·901	·907	9 30	·989	16 0	.831	22
·871	·858	·862	·858	·879	·887	·905	·902	·906	·893	·898	9 0	·961	17 5	·857	23
·850	·834	·850	·850	·874	·881	·902	·901	·901	·893	·890	8 55	·958	15 45	·832	24
·860	·853	·870	·870	·894	·909	·944	·944	·950	·937	·905	9 20	·972	15 5	·848	25
·852	·834	·848	·854	·880	·894	·928	·936	·941	·924	·902	9 0	·964	15 30	·830	26
·832	·821	·827	·827	·845	·859	·891	·895	·891	·883	·885	9 5	·957	16 0	·815	27
·835	·823	·831	·843	·855	·875	·895	·897	·897	·893	·872	9 15	·933	16 0	·819	28
29·854	**29·840**	29·849	29·852	29·874	29·886	29·910	29·915	29·917	29·906	29·895					Mean.
—·041	**—·055**	—·046	—·043	—·021	—·009	+·015	+·020	+·022	+·011						Variation.

MARCH. (Averages for periods of sixty minutes from full hour to full hour of local mean time.)

(IN INCHES OF MERCURY AT 32° F.)

Date.	Hours.													
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13	13—14
1	29·876	29·860	29·855	29·853	29·863	29·867	29·900	29·914	29·943	29·946	29·944	29·922	29·901	29·864
2	·893	·875	·865	·856	·867	·879	·905	·918	·934	·939	·936	·916	·889	·857
3	·877	·862	·854	·848	·858	·860	·881	·904	·924	·920	·914	·892	·868	·842
4	·884	·868	·859	·846	·851	·853	·874	·891	·909	·914	·908	·884	·856	·822
5	·862	·848	·834	·827	·836	·844	·861	·876	·910	·921	·914	·896	·876	·848
6	·887	·871	·867	·858	·862	·870	·892	·904	·931	·930	·930	·908	·885	·853
7	·906	·887	·879	·873	·897	·895	·919	·931	**·956**	·955	·948	·925	·907	·879
8	·884	·869	·856	·844	·854	·856	·880	·893	·921	·923	·914	·890	·871	·833
9	·843	·820	·810	·801	·816	·820	·843	·855	·880	·884	·874	·851	·819	·790
10	·824	·815	·805	·788	·800	·805	·829	·847	·875	·877	·880	·860	·840	·816
11	·837	·829	·831	·829	·842	·848	·869	·889	·914	·919	·921	·906	·890	·870
12	·893	·880	·873	·861	·867	·877	·898	·911	·933	·939	·930	·905	·882	·849
13	·865	·848	·846	·840	·850	·862	·892	·909	·935	·937	·928	·908	·884	·853
14	·850	·837	·828	·823	·828	·838	·867	·883	·910	·908	·892	·876	·850	·810
15	·844	·827	·821	·815	·827	·837	·865	·881	·910	·912	·905	·886	·867	·877
16	·866	·847	·833	·839	·850	·855	·883	·904	·934	·940	·936	·919	·887	·852
17	·879	·862	·858	·851	·859	·872	·891	·907	·933	·937	·931	·905	·879	·853
18	·879	·861	·850	·849	·851	·863	·884	·894	·919	·923	·919	·899	·871	·842
19	·866	·845	·851	·846	·861	·866	·884	·893	·921	·925	·924	·901	·881	·849
20	·842	·825	·822	·811	·830	·845	·880	·891	·909	·919	·916	·888	·857	·819
21	·843	·839	·831	·819	·829	·833	·853	·866	·884	·885	·880	·855	·824	·796
22	·817	·798	·786	·780	·784	·797	·821	·844	·876	·880	·874	·842	·812	·782
23	·798	·786	·779	·778	·792	·798	·828	·844	·872	·870	·868	·852	·814	·783
24	·772	·752	·742	·729	·744	·750	·788	·798	·822	·820	·827	·807	·777	·742
25	·762	·743	·742	·731	·742	·751	·781	·803	·835	·836	·836	·816	·788	·753
26	·787	·767	·759	·761	·765	·773	·796	·811	·842	·845	·847	·825	·802	·774
27	·791	·789	·770	·756	·765	·777	·807	·823	·857	·869	·870	·859	·841	·810
28	·823	·805	·792	·789	·793	·807	·840	·857	·885	·893	·895	·875	·844	·810
29	·823	·807	·798	·781	·789	·801	·829	·837	·865	·873	·872	·861	·842	·815
30	·845	·827	·816	·803	·819	·832	·864	·891	·926	·927	·925	·913	·888	·858
31	·866	·857	·853	·849	·863	·873	·899	·914	·936	·941	·939	·925	·897	·860
Mean	29·848	29·832	29·825	29·817	29·828	29·836	29·861	29·877	29·903	**29·907**	29 903	29·883	29·858	29·828
Variation	+·004	—·012	—·019	—·027	—·016	—·008	+·017	+·033	+·059	**+·063**	+·059	+·039	+·014	—·016

1	29·869	29·860	29·850	29·846	29·858	29·871	29·896	29·903	29·929	29·918	29·912	29·892	29·860	29·832
2	·812	·794	·796	·782	·786	·788	·816	·828	·857	·856	·859	·842	·812	·783
3	·818	·811	·799	·792	·794	·803	·830	·850	·874	·879	·869	·844	·818	·772
4	·793	·776	·766	·762	·764	·776	·892	·812	·844	·851	·856	·848	·828	·812
5	·828	·820	·802	·802	·814	·834	·870	·884	·907	·904	·900	·882	·861	·834
6	·834	·824	·824	·820	·840	·842	·862	·885	·906	·912	·911	·893	·869	·844
7	·855	·835	·813	·806	·822	·832	·860	·873	·882	·882	·871	·853	·816	·793
8	·804	·792	·783	·774	·801	·807	·834	·851	·877	·877	·874	·860	·828	·797
9	·828	·822	·820	·823	·834	·844	·865	·869	·885	·878	·880	·866	·838	·804
10	·844	·843	·826	·834	·852	·854	·868	·874	·912	·900	·894	·892	·868	·850
11	·886	·866	·848	·844	·854	·860	·868	·880	·896	·893	·882	·869	·851	·816
12	·827	·826	·818	·816	·824	·824	·854	·872	·886	·888	·876	·868	·852	·824
13	·852	·848	·842	·846	·866	·882	·906	·914	**·936**	·936	·932	·920	·912	·890
14	·856	·853	·854	·844	·844	·852	·860	·872	·894	·894	·874	·862	·832	·806
15	·821	·815	·815	·815	·823	·835	·857	·867	·885	·885	·877	·863	·849	·809
16	·829	·821	·817	·813	·835	·843	·859	·873	·911	·909	·901	·879	·851	·819
17	·827	·817	·813	·815	·827	·831	·853	·871	·901	·905	·905	·892	·867	·840
18	·814	·804	·788	·782	·798	·802	·826	·846	·866	·864	·854	·834	·802	·770
19	·749	·743	·733	·737	·769	·775	·809	·823	·841	·839	·827	·807	·769	·735
20	·747	·743	·733	·729	·743	·751	·773	·797	·819	·823	·833	·807	·777	·748
21	·771	·759	·749	·735	·735	·745	·763	·787	·817	·817	·801	·783	·767	·747
22	·725	·704	·715	·721	·727	·739	·773	·795	·805	·793	·785	·785	·767	·739
23	·785	·771	·775	·775	·783	·779	·803	·807	·823	·837	·833	·815	·783	·749
24	·816	·806	·796	·784	·794	·796	·832	·852	·874	·870	·856	·838	·814	·784
25	·814	·794	·794	·788	·800	·804	·826	·836	·854	·850	·846	·832	·814	·782
26	·782	·772	·768	·766	·778	·784	·808	·818	·848	·848	·848	·834	·818	·798
27	·818	·802	·786	·784	·796	·804	·830	·844	·868	·864	·870	·866	·854	·823
28	·816	·802	·794	·788	·800	·806	·826	·844	·864	·862	·856	·837	·814	·788
29	·759	·753	·747	·745	·755	·775	·799	·815	·843	·845	·847	·825	·797	·777
30	·753	·741	·731	·729	·757	·775	·795	·795	·817	·821	·819	·801	·755	·727
Mean.	29·811	29·801	29·793	29·790	29·802	29·810	29·834	29·848	**29·871**	29·870	29·865	29·850	29·825	29·796
Variation	+·002	—·008	—·016	—·019	—·007	+·001	+.025	+·039	**+·062**	+·061	+·056	+·041	+·016	—·013

MARCH. (Averages for periods of sixty minutes from full hour to full hour of local mean time.)

(IN INCHES OF MERCURY AT 32° F.)

Hours.										Mean.	Maximum.		Minimum.		Date.
14—15	15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24		Time.	Mag.	Time.	Mag.	
											H. M.		H. M.		
29·845	29·836	29·846	29·849	29·871	29·889	29·913	29·918	29·916	29·904	29.887	9 5	29·953	15 20	29·833	1
·841	·833	·847	·852	·871	·875	·901	·905	·895	·883	·885	8 40	·947	15 50	·829	2
·824	·816	·824	·826	·851	·867	·899	·901	·904	·894	·871	8 45	·932	16 25	·812	3
·804	·799	·800	·805	·830	·842	·872	·880	·882	·874	·859	9 0	·920	17 0	·792	4
·820	·803	·806	·814	·846	·866	·896	·902	·912	·904	·863	9 10	·930	16 0	·802	5
·835	·822	·836	·843	·879	·900	·924	·925	·923	·918	·886	9 5	·939	16 30	·821	6
·856	·832	·839	·843	·863	·875	·897	·904	·902	·891	**·894**	8 45	**·965**	16 0	·829	7
·807	·789	·791	·795	·820	·839	·859	·857	·855	·845	·856	9 0	·931	16 25	·783	8
·769	·758	·765	·770	·795	·802	·813	·814	·817	·815	·818	9 5	·891	16 30	·757	9
·798	·786	·789	·786	·806	·819	·842	·848	·850	·842	·826	9 20	·884	16 10	·782	10
·856	·843	·848	·852	·868	·880	·907	·908	·912	·902	·874	10 0	·928	2 45	·824	11
·818	·803	·803	·797	·817	·835	·862	·870	·880	·875	·869	9 0	·941	17 15	·795	12
·829	·812	·802	·804	·820	·832	·852	·863	·866	·856	·862	8 45	·938	17 0	·796	13
·788	·771	·778	·779	·798	·816	·846	·851	·861	·850	·839	9 0	·914	16 20	·768	14
·815	·801	·801	·812	·837	·852	·879	·879	·877	·874	·854	9 7	·911	16 40	·805	15
·831	·813	·819	·825	·849	·861	·883	·892	·892	·883	·871	9 5	·941	16 0	·811	16
·831	·821	·827	·837	·865	·881	·899	·899	·891	·883	·877	9 10	·945	16 0	·817	17
·817	·809	·822	·832	·860	·875	·899	·899	·892	·883	·871	9 30	·927	16 10	·807	18
·837	·813	·849	·862	·865	·849	·857	·862	·859	·851	·867	9 15	·931	15 40	·807	19
·792	·771	·775	·785	·809	·822	·841	·857	·869	·860	·843	9 20	**·927**	16 35	·769	20
·767	·745	·755	·765	·794	·797	·827	·833	·839	·833	·825	8 20	·891	16 0	·743	21
·755	·740	·743	·742	·756	·762	·792	·796	·810	·803	·800	8 50	·884	16 15	·738	22
·743	·724	·726	·722	·732	·746	·777	·792	·789	·781	·791	9 15	·880	17 35	·715	23
·716	·698	·702	**·696**	·716	·726	·762	·773	·774	·766	**·758**	9 45	·830	17 45	**·686**	24
·726	·710	·710	·718	·732	·748	·778	·792	·797	·790	·767	8 25	·840	17 5	·702	25
·751	·735	·735	·741	·751	·761	·778	·801	·805	·799	·784	9 5	·859	17 12	·723	26
·790	·770	·759	·750	·759	·771	·799	·819	·830	·831	·803	9 22	·873	4 10	·747	27
·779	·761	·754	·751	·775	·788	·820	·829	·839	·825	·818	9 35	·903	16 58	·741	28
·795	·775	·774	·774	·805	·821	·853	·860	·875	·857	·824	9 15	·881	17 7	·759	29
·837	·817	·821	·821	·841	·851	·870	·873	·871	·865	·858	9 12	·935	3 55	·802	30
·845	·827	·825	·825	·840	·851	·869	·874	·875	·869	·874	9 35	·943	16 30	·817	31
29·804	**29·788**	29·793	29·796	29·817	29·829	29·854	29·861	29·863	29·855	29·844					Mean.
—·040	**—·056**	—·051	—·048	—·027	—·015	+·010	+·017	+·019	+·011						Variation.

APRIL.

29·801	29·782	29·780	29·779	29·794	29·802	29·823	29·836	29·843	29·827	29·848	8 55	29·932	16 50	29·764	1
·768	·764	·768	·769	·794	·808	·820	·823	·831	·825	·808	9 19	·862	16 5	·750	2
·754	·744	·742	·744	·766	·782	·804	·808	·812	·801	·805	8 57	·880	17 12	·730	3
·794	·780	·771	·778	·798	·815	·834	·850	·850	·842	·808	9 35	·862	4 15	·750	4
·803	·792	·792	·792	·814	·818	·842	·846	·848	·844	·839	9 8	·916	17 5	·782	5
·816	·796	·791	·788	·829	·850	·884	·885	·901	·882	·854	9 30	·928	16 58	·784	6
·761	·743	·732	·729	·768	·779	·814	·825	·825	·810	·816	8 45	·892	17 30	·724	7
·772	·748	·749	·755	·785	·802	·836	·840	·837	·832	·813	8 45	·882	16 30	·732	8
·786	·774	·782	·804	·835	·848	·854	·856	·852	·848	·837	9 40	·888	15 48	·760	9
·828	·816	·828	·850	·876	·866	·890	·902	·910	·896	·866	22 20	·918	2 36	·810	10
·792	·773	·766	·766	·782	·798	·814	·820	·824	·820	·836	8 15	·902	15 47	·756	11
·794	·772	·772	·772	·792	·800	·822	·840	·852	·852	·830	9 3	·892	15 30	·758	12
·862	·838	·824	·816	·833	·838	·852	·862	·868	·854	**·872**	8 58	**·942**	17 15	·806	13
·782	·764	·758	·756	·778	·790	·814	·820	·822	·824	·829	8 30	·896	16 55	·748	14
·781	·765	·757	·751	·771	·787	·821	·827	·835	·831	·823	8 45	·893	17 12	·739	15
·793	·759	·749	·763	·793	·807	·843	·849	·853	·849	·834	8 30	·913	16 2	·741	16
·825	·805	·799	·795	·827	·837	·851	·845	·838	·827	·842	9 25	·911	17 55	·735	17
·748	·724	·718	·714	·734	·736	·760	·768	·768	·754	·786	8 16	·868	16 35	·706	18
·709	·683	·679	·679	·701	·713	·739	·747	·751	·743	·754	8 45	·849	16 26	·667	19
·717	·694	·677	·685	·711	·721	·753	·773	·781	·769	·754	8 55	·839	16 10	**·659**	20
·717	·701	·681	·693	·715	·733	·749	·749	·751	·737	·750	9 2	·821	16 40	·675	21
·713	·689	·681	·683	·719	·747	·785	·795	·807	·795	·749	7 46	·817	16 44	·673	22
·721	·705	·693	·705	·743	·755	·785	·801	·825	·835	·779	9 2	·843	16 42	·683	23
·766	·758	·750	·758	·778	·802	·828	·838	·840	·826	·811	8 58	·880	16 20	·734	24
·756	·732	·726	·734	·758	·774	·794	·802	·808	·798	·797	8 2	·858	16 40	·720	25
·780	·762	·756	·756	·774	·782	·810	·822	·830	·822	·799	9 15	·858	17 0	·750	26
·802	·774	·766	·763	·782	·801	·822	·824	·836	·823	·817	8 40	·876	17 40	·756	27
·760	·736	·728	·728	·748	·760	·764	·760	·774	·770	·793	9 15	·874	16 45	·720	28
·764	·737	·720	·719	·727	·741	771	·787	·793	·783	·776	8 45	·851	17 5	·707	29
·701	·685	·677	**·671**	·685	·687	·711	·715	·725	·717	**·741**	8 35	·825	17 58	·668	30
29·772	29·753	**29.747**	29·750	29·774	29·786	29·810	29·817	29·823	29·815	29·809					Mean.
—·037	—·056	**—·062**	—·059	—·035	—·023	+·001	+·008	+·014	+·006						Variation.

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

MAY. (IN INCHES OF MERCURY AT 32° F.)

Date.	Hours.													
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13	13—14
1	29·704	29·700	29·692	29·688	29·706	29·712	29·740	29·750	29·760	29·756	29·746	29·722	29·700	29·672
2	·673	·659	·653	·655	·675	·687	·721	·743	·773	·777	·777	·763	·747	·719
3	·723	·709	·701	·701	·715	·735	·747	·759	·783	·787	·781	·765	·739	·709
4	·739	·724	·722	·712	·730	·734	·750	·762	·788	·788	·780	·774	·758	·724
5	·735	·725	·719	·711	·721	·721	·737	·753	·771	·767	·767	·757	·737	·717
6	·719	·706	·685	·681	·697	·697	·733	·745	·765	·761	·763	·761	·739	·721
7	·723	·705	·687	·681	·697	·705	·733	·747	·769	·775	·773	·761	·737	·709
8	·747	·733	·723	·719	·731	·739	·777	·793	·819	·823	·815	·803	·785	·761
9	·762	·752	·744	·734	·758	·770	·786	·800	·850	·858	·860	·848	·824	·806
10	·761	·749	·749	·749	·763	·771	·793	·805	·821	·821	·817	·807	·789	·765
11	·748	·744	·740	·736	·750	·762	·784	·786	·806	·814	·814	·806	·794	·768
12	·774	·759	·756	·748	·758	·755	·782	·788	·808	·810	·808	·799	·791	·764
13	·776	·757	·749	·745	·756	·761	·780	·799	·815	·816	·813	·803	·785	·763
14	·770	·764	·768	·760	·776	·780	·814	·826	·846	·845	·849	·834	·814	·794
15	·764	·754	·733	·733	·755	·763	·783	·793	·809	·809	·803	·785	·763	·745
16	·791	·773	·773	·769	·788	·789	·805	·811	·832	·836	·828	·808	·793	·758
17	·811	·793	·787	·785	·798	·807	·831	·849	·866	·861	·859	·831	·811	·791
18	·793	·783	·786	·781	·794	·803	·828	·849	·872	·866	·858	·841	·825	·796
19	·828	·814	·807	·806	·820	·830	·860	·876	·900	·907	**·916**	·899	·873	·847
20	·807	·780	·782	·773	·788	·796	·825	·843	·863	·859	·863	·841	·826	·795
21	·795	·783	·768	·760	·771	·777	·799	·817	·839	·848	·842	·826	·812	·786
22	·770	·762	·752	·745	·754	·765	·797	·813	·840	·844	·849	·830	·817	·783
23	·769	·753	·745	·738	·746	·752	·775	·794	·822	·825	·821	·807	·800	·783
24	·791	·781	·777	·764	·783	·793	·818	·827	·855	·867	·870	·851	·832	·807
25	·805	·788	·787	·782	·783	·787	·802	·815	·827	·833	·828	·807	·800	·779
26	·772	·752	·751	·747	·761	·769	·808	·819	·833	·832	·834	·819	·811	·777
27	·741	·721	·713	·711	·723	·738	·763	·773	·783	·777	·783	·776	·765	·744
28	·754	·740	·744	·741	·751	·763	·790	·811	·829	·833	·833	·812	·800	·772
29	·771	·758	·754	·752	·758	·767	·794	·804	·823	·820	·824	·799	·781	·749
30	·758	·740	·745	·744	·754	·753	·779	·789	·803	·810	·811	·811	·812	·793
31	·774	·759	·749	·735	·734	·728	·746	·754	·766	·773	·773	·759	·748	·723
Mean	29·763	29·749	29·743	29·738	29·751	29·758	29·783	29·797	29·817	**29·819**	29·818	29·803	29·787	29·762
Variation	—·002	—·016	—·022	—·027	—·014	—·007	+·018	+·032	+·052	**+·054**	+·053	+·038	+·022	—·003

JUNE.

1	29·708	29·687	29·679	29·665	29·676	29·688	29·712	29·718	29·736	29·723	29·723	29·709	29·698	29·678
2	·626	·615	·605	·595	·601	·607	·611	·623	·631	·633	·629	·617	·603	·585
3	·565	·549	·539	·540	·540	·546	·567	·582	·587	·583	·578	·571	·547	·531
4	·537	·515	·499	·493	·494	·492	·509	·519	·536	·535	·541	·523	·512	·492
5	·502	·491	·478	·474	·484	·483	·522	·534	·563	·569	·566	·553	·543	·529
6	·571	·561	·569	·582	·604	·613	·635	·635	·661	·655	·664	·663	·661	·659
7	·665	·647	·635	·621	·632	·629	·648	·660	·694	·701	·701	·692	·676	·661
8	·633	·609	·589	·583	·583	·589	·605	·620	·638	·639	·638	·630	·624	·605
9	·577	·566	·569	·554	·571	·567	·601	·624	·635	·640	·656	·648	·646	·631
10	·679	·666	·667	·671	·677	·688	·706	·726	·750	·764	·778	·775	·777	·766
11	·788	·769	·769	·766	·771	·771	·799	·815	·831	·829	**·839**	·830	·828	·809
12	·803	·789	·780	·777	·780	·787	·798	·807	·821	·815	·810	·804	·795	·769
13	·748	·732	·719	·712	·729	·735	·756	·771	·787	·780	·779	·763	·758	·748
14	·726	·710	·709	·708	·716	·713	·737	·751	·783	·779	·763	·761	·749	·733
15	·734	·708	·706	·700	·715	·719	·736	·749	·764	·771	·770	·751	·742	·728
16	·730	·718	·708	·710	·710	·723	·736	·749	·763	·768	·767	·757	·739	·706
17	·722	·710	·707	·693	·695	·684	·697	·706	·737	·741	·734	·733	·721	·695
18	·695	·673	·657	·660	·663	·665	·688	·708	·724	·728	·730	·723	·713	·696
19	·684	·661	·640	·633	·642	·649	·663	·670	·685	·678	·679	·680	·671	·648
20	·645	·628	·619	·617	·624	·632	·651	·658	·672	·667	·661	·646	·631	·609
21	·615	·586	·570	·562	·579	·584	·606	·608	·627	·622	·619	·608	·591	·581
22	·594	·570	·553	·550	·549	·562	·584	·601	·607	·600	·594	·588	·588	·578
23	·602	·588	·579	·565	·580	·590	·614	·631	·653	·653	·655	·646	·642	·626
24	·621	·611	·607	·597	·604	·612	·640	·652	·685	·685	·677	·651	·633	·612
25	·555	·529	·519	·506	·510	·519	·535	·541	·556	·552	·553	·549	·543	·527
26	·539	·516	·517	·509	·515	·532	·554	·569	·588	·587	·589	·583	·581	·566
27	·611	·589	·590	·565	·572	·583	·617	·626	·641	·645	·642	·631	·617	·594
28	·625	·597	·587	·585	·589	·605	·623	·626	·644	·650	·648	·634	·619	·600
29	·579	·572	·560	·554	·554	·547	·553	·568	·589	·592	·588	·567	·567	·541
30	·545	·525	·513	·501	·504	·518	·539	·550	·567	·563	·571	·559	·537	·517
Mean	29·641	29·623	29·615	29·608	29·615	29·621	29·641	29·653	**29·672**	29·672	29·671	29·661	29·652	29·634
Variation	+·006	—·012	—·020	—·027	—·020	—·014	+·006	+·018	**+·037**	+·037	+·036	+·026	+·017	—·001

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

MAY. (IN INCHES OF MERCURY AT 32° F.)

Hours.										Mean.	Maximum.		Minimum.		Date.
14—15	15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24		Time.	Mag.	Time.	Mag.	
											H. M.		H. M.		
29·648	29·628	29·612	**29·608**	29·636	29·656	29·662	29·686	29·696	29·680	**29·699**	8 26	29·762	17 6	**29·606**	1
·699	·677	·673	·673	·699	·707	·735	·729	·749	·733	·712	9 58	·778	2 25	·651	2
·675	·651	·651	·663	·681	·701	·725	·727	·739	·741	·721	9 22	·791	16 18	·647	3
·712	·694	·688	·688	·716	·718	·738	·752	·760	·750	·737	9 11	·792	17 0	·686	4
·699	·681	·673	·679	·703	·707	·725	·739	·745	·731	·726	9 20	·773	16 22	·671	5
·701	·683	·693	·691	·711	·721	·751	·761	·759	·751	·725	10 0	·766	2 21	·681	6
·683	·673	·677	·681	·705	·725	·745	·757	·773	·761	·724	10 0	·775	15 37	·671	7
·743	·731	·735	·737	·743	·753	·765	·769	·777	·775	·762	9 21	·823	2 20	·718	8
·777	·752	·750	·740	·760	·769	·788	·790	·794	·777	·785	10 0	·862	3 11	·734	9
·749	·727	·717	·711	·725	·725	·751	·755	·763	·757	·764	10 0	·821	16 47	·707	10
·740	·718	·714	·714	·712	·714	·762	·768	·782	·782	·761	9 25	·814	16 32	·710	11
·741	·723	·726	·722	·742	·755	·774	·786	·805	·798	·770	10 0	·816	16 0	·720	12
·739	·723	·721	·722	·737	·740	·768	·770	·784	·777	·766	9 35	·817	16 15	·721	13
·780	·764	·753	·751	·762	·770	·796	·796	·792	·784	·791	10 0	·850	17 7	·751	14
·737	·723	·725	·733	·754	·763	·786	·794	·805	·791	·767	9 30	·821	16 20	·721	15
·742	·727	·730	·739	·765	·777	·809	·818	·829	·817	·788	9 36	·839	15 41	·727	16
·761	·739	·741	·735	·750	·755	·786	·796	·808	·791	·798	8 40	·867	16 45	·727	17
·774	·755	·751	·755	·777	·792	·818	·826	·838	·838	·808	8 33	·873	16 53	·744	18
·823	·792	·789	·783	·798	·800	·820	·826	·837	·820	**·836**	10 0	**·918**	16 48	·780	19
·774	·754	·758	·758	·769	·785	·809	·820	·822	·807	·804	9 12	·866	15 54	·750	20
·769	·747	·743	·742	·754	·758	·774	·784	·797	·782	·786	9 36	·850	16 35	·734	21
·762	·743	·741	·741	·757	·759	·774	·775	·785	·773	·780	10 27	·855	16 40	·735	22
·763	·746	·752	·743	·750	·753	·778	·794	·802	·804	·776	9 0	·828	4 0	·736	23
·795	·769	·769	·770	·788	·794	·812	·822	·835	·817	·808	10 0	·873	3 38	·763	24
·759	·731	·727	·726	·737	·738	·767	·773	·787	·779	·781	9 40	·835	17 12	·721	25
·753	·729	·727	·721	·726	·722	·747	·749	·757	·751	·769	8 0	·835	17 14	·717	26
·718	·705	·697	·689	·708	·714	·742	·749	·771	·760	·740	8 0	·786	17 48	·686	27
·754	·730	·726	·731	·752	·760	·773	·776	·782	·779	·772	8 55	·836	16 40	·716	28
·724	·684	·686	·687	·702	·711	·742	·761	·771	·763	·758	10 0	·829	15 50	·679	29
·773	·740	·728	·719	·723	·727	·749	·766	·772	·764	·765	11 7	·818	18 12	·710	30
·706	·687	·678	·674	·692	·693	·709	·713	·731	·718	·730	0 25	·778	16 34	·670	31
29·741	29·720	29·718	**29·717**	29·733	29·741	29·764	29·772	29·782	29·773	29·765					Mean.
—·024	—·045	—·047	**—·048**	—·032	—·024	—·001	+·007	+·017	+·008						Variation.

JUNE.

29·659	29·639	29·642	29·643	29·649	29·669	29·673	29·674	29·666	29·656	29·682	8 0	29·740	16 10	29·636	1
·562	·537	·539	·537	·543	·552	·573	·574	·578	·568	·589	9 6	·641	15 45	·531	2
·516	·501	·507	·515	·536	·546	·560	·560	·559	·546	·549	8 5	·591	16 35	·497	3
·482	**·455**	·456	·470	·492	·501	·518	·515	·519	·513	**·505**	9 20	·543	16 37	**·445**	4
·527	·517	·513	·515	·533	·544	·574	·581	·588	·578	·532	22 26	·591	3 37	·469	5
·639	·624	·629	·626	·637	·630	·651	·672	·675	·668	·633	21 5	·690	2 19	·559	6
·645	·624	·622	·618	·627	·635	·638	·645	·653	·644	·651	9 35	·714	17 12	·614	7
·599	·578	·567	·567	·566	·570	·585	·589	·598	·585	·600	9 20	·644	17 5	·562	8
·625	·611	·602	·600	·616	·632	·661	·673	·686	·677	·619	22 38	·688	3 28	·548	9
·752	·740	·747	·748	·761	·765	·786	·785	·799	·791	·740	22 38	·802	2 35	·662	10
·800	·790	·790	·790	·798	·810	·821	·829	·830	·820	**·804**	10 25	**·843**	3 45	**·765**	11
·756	·741	·736	·737	·748	·752	·777	·776	·787	·769	·780	8 58	·824	17 0	·732	12
·735	·718	·707	·696	·716	·713	·735	·742	·752	·736	·740	9 15	·791	17 7	·691	13
·718	·699	·692	·699	·707	·714	·726	·727	·744	·739	·729	8 35	·792	17 5	·687	14
·714	·696	·686	·696	·708	·717	·736	·746	·753	·757	·729	9 0	·778	16 41	·684	15
·692	·676	·677	·679	·706	·716	·727	·733	·740	·737	·724	9 35	·774	15 52	·670	16
·674	·646	·648	·653	·671	·684	·700	·701	·701	·698	·698	9 44	·774	15 40	·642	17
·674	·665	·663	·663	·680	·690	·694	·706	·707	·693	·690	9 32	·732	3 0	·652	18
·631	·611	·608	·606	·624	·643	·669	·667	·683	·670	·654	8 17	·689	16 55	·601	19
·598	·578	·575	·581	·592	·609	·636	·631	·634	·626	·626	8 40	·676	16 40	·571	20
·558	·541	·556	·553	·562	·564	·585	·599	·606	·600	·587	9 0	.629	14 58	·531	21
·560	·543	·547	·556	·579	·592	·609	·610	·616	·607	·581	21 7	·617	16 10	·536	22
·621	·598	·594	·602	·620	·621	·643	·653	·656	·644	·620	22 0	·658	3 40	·561	23
·586	·568	·567	·569	·581	·586	·597	·588	·594	·572	·612	8 55	·689	17 0	·563	24
·522	·510	·508	.511	·524	·537	·555	·548	·555	·549	·534	21 0	·568	16 22	·498	25
·555	·542	·541	·547	·562	·576	·602	·616	·628	·616	·564	22 0	·632	3 7	·502	26
·580	·570	·567	·562	·582	·600	·628	·630	·635	·621	·604	8 30	·650	3 35	·560	27
·572	·548	·538	·534	·559	·576	·583	·604	·617	·596	·598	9 15	·655	17 30	·531	28
·526	·515	·504	·515	·534	·543	·568	·575	·580	·553	·556	9 10	·596	16 36	·498	29
·506	·488	·496	·498	·539	·552	·573	·570	·576	·562	·536	22 8	·580	16 10	·484	30
29·619	29·602	**29·601**	29·603	29·618	29·628	29·646	29·651	29·657	29·646	29·635					Mean.
—·016	—·033	**—·034**	—·032	—·017	—·007	+·011	+·016	+·022	+·011						Variation.

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

JULY. (IN INCHES OF MERCURY AT 32°F.)

Date.	Hours.													
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13	13—14
1	29·552	29·542	29·532	29·527	29·538	29·538	29·566	29·577	29·594	29·596	29·604	29·595	29·583	29·564
2	·550	·540	·530	·530	·531	·543	·563	·582	·598	·598	·597	·579	·572	·545
3	·573	·555	·563	·553	·550	·559	·585	·596	·608	·612	·611	·600	·590	·572
4	·598	·571	·559	·554	·560	·571	·592	·607	·616	·609	·615	·597	·594	·573
5	·563	·536	·522	·505	·513	·529	·561	·583	·602	·610	·602	·589	·585	·568
6	·576	·556	·544	·539	·543	·544	·570	·569	·580	·579	·577	·564	·558	·543
7	·531	·513	·508	·496	·500	·503	·526	·534	·554	·556	·559	·552	·543	·529
8	·562	·545	·542	·533	·540	·543	·568	·578	·597	·601	·608	·597	·589	·578
9	·608	·595	·602	·593	·610	·614	·641	·655	·670	·672	·678	·664	·662	·652
10	·675	·646	·631	·624	·627	·627	·647	·658	·670	·669	·670	·659	·660	·645
11	·628	·599	·584	·578	·574	·574	·585	·588	·604	·598	·591	·574	·560	·538
12	·527	·502	·494	·481	·487	·494	·503	·511	·532	·537	·541	·530	·520	·510
13	·515	·491	·489	·481	·500	·509	·534	·545	·576	·582	·583	·578	·579	·573
14	·611	·595	·595	·589	·601	·613	·636	·644	·667	·678	·693	·682	·677	·669
15	·704	·683	·680	·676	·688	·692	·705	·716	·736	·742	·746	·728	·717	·693
16	·671	·641	·637	·631	·634	·636	·651	·656	·672	·666	·664	·651	·644	·626
17	·602	·578	·573	·563	·578	·583	·602	·611	·626	·628	·638	·627	·624	·606
18	·619	·599	·605	·593	·605	·615	·639	·642	·666	·670	·685	·674	·675	·667
19	·730	·712	·708	·707	·704	·710	·730	·736	·751	·755	·766	·757	·753	·736
20	·755	·733	·730	·724	·730	·741	·764	·768	·795	·801	·809	·795	·785	·764
21	·756	·733	·728	·715	·717	·720	·749	·750	·759	·767	·777	·764	·754	·733
22	·706	·690	·680	·672	·676	·682	·700	·711	·727	·728	·736	·727	·727	·711
23	·758	·736	·734	·725	·734	·737	·756	·769	·784	·785	·787	·768	·764	·749
24	·730	·711	·707	·695	·710	·708	·722	·729	·745	·749	·751	·741	·736	·722
25	·665	·646	·642	·630	·635	·641	·666	·678	·692	·694	·695	·686	·672	·652
26	·653	·635	·634	·626	·635	·637	·652	·660	·681	·694	·703	·689	·684	·676
27	·708	·694	·690	·686	·685	·689	·712	·726	·734	·735	·734	·727	·716	·698
28	·724	·703	·692	·685	·694	·695	·712	·724	·744	·747	·756	·745	·738	·724
29	·747	·732	·730	·726	·739	·746	·766	·776	·800	·802	·810	·796	·792	·773
30	·778	·760	·753	·745	·753	·758	·770	·781	·794	·787	·788	·776	·766	·746
31	·735	·716	·711	·705	·713	·713	·734	·746	·764	·761	·764	·747	·742	·727
Mean	29·649	29·629	29·624	29·616	29·623	29·628	29·649	29·658	29·675	29·678	29·682	29·670	29·663	29·647
Variation	·000	—·020	—·025	—·033	—·026	—·021	·000	+·009	+·026	+·029	+·033	+·021	+·014	—·002

AUGUST.

1	29·724	29·704	29·702	29·692	29·711	29·718	29·739	29·750	29·770	29·774	29·776	29·764	29·750	29·724
2	·739	·718	·711	·702	·714	·719	·744	·748	·768	·766	·775	·763	·759	·743
3	·765	·741	·728	·714	·712	·722	·745	·753	·776	·778	·780	·771	·774	·762
4	·758	·733	·726	·714	·722	·723	·741	·751	·771	·779	·784	·776	·767	·754
5	·749	·735	·733	·731	·747	·753	·773	·781	·801	·807	·812	·804	·800	·777
6	·774	·754	·743	·728	·739	·748	·772	·783	·803	·804	·812	·800	·792	·773
7	·776	·756	·748	·738	·744	·749	·768	·777	·790	·791	·796	·783	·779	·755
8	·750	·731	·729	·723	·733	·742	·770	·776	·794	·792	·796	·784	·777	·753
9	·742	·725	·719	·711	·725	·726	·742	·749	·771	·768	·766	·750	·747	·737
10	·736	·716	·712	·699	·709	·709	·727	·737	·758	·762	·768	·760	·759	·737
11	·730	·711	·706	·699	·703	·710	·731	·738	·754	·749	·752	·740	·734	·727
12	·726	·709	·710	·707	·721	·723	·739	·747	·775	·781	·785	·767	·760	·741
13	·751	·726	·720	·714	·713	·726	·739	·748	·761	·764	·767	·753	·749	·725
14	·715	·692	·685	·678	·687	·689	·706	·719	·735	·736	·740	·727	·719	·698
15	·712	·691	·686	·680	·692	·699	·716	·727	·748	·757	·768	·752	·740	·720
16	·728	·708	·703	·695	·706	·708	·725	·738	·763	·766	·763	·750	·744	·726
17	·720	·707	·700	·693	·702	·712	·735	·742	·761	·757	·757	·739	·733	·716
18	·703	·681	·668	·657	·655	·664	·681	·688	·710	·706	·704	·694	·682	·661
19	·658	·634	·628	·622	·634	·638	·651	·664	·690	·696	·703	·693	·689	·672
20	·687	·674	·661	·646	·661	·666	·684	·694	·715	·715	·714	·704	·698	·676
21	·676	·656	·647	·633	·638	·649	·661	·674	·685	·685	·687	·673	·660	·641
22	·671	·649	·646	·641	·651	·654	·661	·666	·681	·682	·691	·671	·660	·640
23	·632	·609	·599	·587	·594	·598	·614	·626	·642	·652	·652	·642	·632	·620
24	·648	·630	·627	·622	·632	·639	·659	·675	·702	·706	·717	·710	·705	·687
25	·701	·683	·672	·658	·658	·658	·679	·700	·721	·713	·718	·708	·702	·681
26	·698	·682	·680	·673	·682	·685	·697	·706	·722	·725	·741	·730	·725	·705
27	·738	·727	·719	·708	·717	·723	·740	·753	·786	·791	·801	·791	·784	·769
28	·826	·805	·796	·780	·797	·806	·835	·849	·874	·877	·874	·864	·853	·835
29	·840	·827	·819	·810	·820	·824	·837	·851	·871	·871	·868	·845	·833	·819
30	·816	·800	·792	·782	·791	·795	·810	·819	·838	·837	·836	·826	·814	·795
31	·811	·790	·783	·783	·781	·788	·808	·824	·839	·847	·848	·841	·824	·794
Mean	29·732	29·713	29·706	29·697	29·706	29·712	29·730	29·740	29·760	29·762	29·766	29·754	29·747	29·728
Variation	+·001	—·018	—·025	—·034	—·025	—·019	—·001	+·009	+·029	+·031	+·035	+·023	+·016	—·003

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

JULY. (IN INCHES OF MERCURY AT 32° F.)

Hours.										Mean.	Maximum.		Minimum.		Date.
14—15	15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24		Time.	Mag.	Time.	Mag.	
											H. M.		H. M.		
29·551	29·536	29·542	29·538	29·552	29·563	29·574	29·580	29·584	29·564	29·562	10 36	29·612	3 14	29·522	1
·541	·524	·520	·522	·527	·538	·565	·581	·587	·575	·556	9 0	·602	16 30	·516	2
·564	·560	·567	·574	·588	·598	·613	·619	·625	·609	·585	22 0	·626	4 40	·548	3
·555	·545	·548	·548	·558	·564	·581	·591	·591	·581	·578	8 0	·622	17 8	·542	4
·553	·526	·524	·524	·542	·552	·575	·585	·587	·573	·559	9 5	·616	3 40	·502	5
·516	·493	·490	·483	·498	·507	·533	·538	·551	·537	·541	8 48	·590	17 25	·480	6
·519	·502	·502	·511	·531	·543	·563	·573	·581	·570	·533	21 45	·588	4 21	·492	7
·562	·544	·549	·551	·580	·586	·613	·617	·625	·614	·576	21 38	·626	4 21	·530	8
·644	·627	·635	·637	·656	·664	·679	·683	·689	·682	·646	22 40	·703	4 0	·591	9
·633	·612	·607	·594	·623	·628	·638	·646	·653	·639	·641	8 0	·675	17 35	·591	10
·530	·515	·509	·501	·521	·533	·544	·547	·552	·539	·561	8 12	·607	17 30	·499	11
·499	·483	·483	·486	·497	·500	·521	·524	·534	·522	**·509**	9 4	·542	16 40	**·478**	12
·571	·567	·574	·576	·592	·600	·621	·628	·634	·632	·564	22 0	·635	3 26	·479	13
·671	·661	·669	·677	·698	·707	·726	·735	·733	·715	·664	22 0	·739	3 22	·585	14
·685	·668	·668	·675	·687	·693	·701	·707	·711	·689	·700	9 31	·748	16 0	·664	15
·616	·595	·587	·582	·596	·607	·622	·623	·626	·609	·631	8 20	·675	17 0	·579	16
·599	·581	·588	·592	·614	·618	·633	·635	·641	·627	·607	22 0	·643	3 5	·561	17
·663	·654	·662	·669	·689	·703	·721	·730	·747	·737	·664	22 0	·749	4 0	·589	18
·729	·717	·710	·705	·718	·730	·759	·766	·776	·764	·735	22 15	·779	4 50	·697	19
·746	·719	·717	·709	·736	·750	·774	·780	·789	·769	·758	9 42	·811	17 8	·707	20
·726	·701	·698	·693	·709	·709	·720	·729	·731	·718	·731	10 0	·779	17 32	·691	21
·710	·696	·698	·699	·721	·732	·755	·761	·776	·762	·716	22 0	·781	3 30	·671	22
·742	·723	·722	·721	·736	·740	·752	·755	·756	·739	·749	10 0	·790	16 40	·718	23
·709	·683	·679	·671	·687	·693	·701	·699	·695	·677	·710	10 0	·756	17 25	·668	24
·640	·621	·624	·625	·644	·650	·658	·664	·674	·665	·657	9 23	·699	16 6	·619	25
·676	·672	·676	·680	·692	·700	·715	·724	·723	·712	·676	22 0	·729	3 43	·625	26
·692	·678	·680	·684	·694	·700	·727	·737	·745	·730	·708	22 0	·746	16 0	·674	27
·715	·700	·697	·693	·716	·726	·744	·754	·765	·754	·723	22 0	·769	4 0	·684	28
·761	·753	·766	·767	·776	·784	·801	·805	·804	·785	**·772**	10 0	**·812**	4 0	·724	29
·737	·719	·727	·730	·748	·749	·760	·761	·765	·743	·758	8 15	·796	16 12	·714	30
·720	·704	·707	·722	·741	·745	·755	·754	·751	·735	·734	9 5	·769	16 0	·701	31
29·638	29·622	29·623	29·624	29·641	29·649	29·666	29·672	29·677	29·663	29·649					Mean.
—·011	—·027	—·026	—·025	—·008	·000	+·017	+·023	+·028	+·014						Variation.

AUGUST.

29·715	29·702	29·710	29·712	29·730	29·738	29·753	29·757	29·761	29·747	29·734	9 10	29·778	3 33	29·686	1
·738	·718	·716	·725	·745	·753	·771	·779	·789	·778	·745	22 0	·793	3 15	·699	2
·753	·731	·737	·740	·751	·754	·769	·780	·786	·772	·754	22 0	·788	4 40	·703	3
·744	·722	·719	·725	·738	·745	·761	·773	·778	·765	·749	9 45	·786	4 25	·710	4
·764	·744	·746	·748	·762	·766	·786	·792	·794	·784	·770	10 20	·821	3 15	·727	5
·769	·754	·757	·759	·772	·779	·796	·801	·804	·788	·775	10 31	·816	3 50	·726	6
·747	·726	·732	·737	·751	·756	·772	·770	·775	·760	·761	10 15	·800	16 25	·722	7
·751	·734	·730	·737	·745	·752	·767	·771	·770	·752	·757	10 25	·798	4 0	·720	8
·725	·710	·712	·715	·731	·738	·756	·758	·760	·744	·739	8 30	·772	4 0	·708	9
·728	·709	·706	·707	·720	·724	·739	·748	·747	·735	·731	9 55	·771	3 46	·697	10
·712	·695	·699	·700	·720	·724	·740	·737	·737	·719	·724	8 55	·759	15 55	·691	11
·734	·723	·728	·730	·742	·756	·775	·779	·777	·765	·746	10 50	·787	3 20	·701	12
·710	·696	·695	·701	·719	·729	·750	·752	·746	·724	·732	8 25	·771	16 20	·689	13
·684	·673	·678	·683	·706	·718	·727	·732	·738	·722	·708	10 0	·743	15 41	·669	14
·702	·690	·696	·699	·718	·726	·741	·746	·751	·734	·729	10 20	·773	3 35	·677	15
·712	·690	·689	·692	·710	·719	·739	·745	·742	·729	·725	9 0	·769	16 35	·687	16
·690	·664	·673	·675	·685	·701	·717	·723	·721	·707	·714	8 45	·767	15 50	·661	17
·645	·636	·629	·631	·643	·650	·673	·680	·684	·670	·671	9 24	·714	16 32	·624	18
·657	·645	·643	·652	·670	·685	·708	·716	·710	·697	·669	21 30	·722	3 35	·618	19
·663	·646	·645	·646	·653	·658	·678	·698	·694	·680	·677	9 30	·722	16 48	·640	20
·633	·623	·629	·627	·646	·647	·671	·685	·684	·671	·658	21 0	·691	16 28	·621	21
·626	·614	·617	·614	·628	·636	·651	·657	·656	·638	·650	10 52	·695	16 30	·605	22
·604	·591	·596	·600	·615	·623	·642	·652	·664	·651	**·622**	22 0	·668	4 20	**·582**	23
·679	·664	·669	·673	·687	·695	·714	·722	·723	·703	·679	22 0	·728	3 50	·620	24
·671	·659	·664	·670	·686	·695	·718	·724	·726	·708	·691	22 0	·730	5 8	·652	25
·692	·682	·690	·692	·707	·716	·741	·755	·762	·749	·710	22 0	·763	3 34	·669	26
·760	·755	·767	·771	·791	·802	·831	·844	·848	·832	·773	22 0	·855	3 50	·705	27
·828	·818	·821	·824	·845	·856	·870	·875	·871	·849	**·839**	9 0	**·880**	3 40	·776	28
·797	·780	·787	·792	·806	·812	·830	·837	·837	·820	·826	9 0	·874	16 27	·778	29
·786	·783	·789	·795	·813	·821	·834	·835	·841	·821	·811	22 13	·843	4 0	·779	30
·788	·772	·774	·778	·793	·800	·818	·827	·829	·818	·807	9 50	·853	16 12	·763	31
29·716	29·702	29 705	29·708	29·723	29·731	29·750	29·756	29·758	29·743	29·731					Mean.
—·015	—·029	—·026	—·023	—·008	·000	+·019	+·025	+·027	+·012						Variation.

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

SEPTEMBER. (IN INCHES OF MERCURY AT 32° F.)

Date.	Hours.													
	0–1	1–2	2–3	3–4	4–5	5–6	6–7	7–8	8–9	9–10	10–11	11–12	12–13	13–14
1	29·807	29·781	29·765	29·762	29·770	29·778	29·801	29·816	29·843	29·843	29·838	29·820	29·805	29·773
2	·784	·765	·752	·755	·762	·770	·781	·790	·812	·821	·818	·800	·784	·750
3	·763	·747	·735	·728	·734	·739	·760	·775	·801	·805	·809	·792	·781	·766
4	·797	·778	·770	·760	·764	·776	·785	·791	·805	·807	·808	·792	·787	·768
5	·775	·757	·748	·738	·749	·747	·761	·777	·799	·798	·798	·787	·774	·759
6	·771	·751	·742	·737	·745	·745	·763	·782	·807	·802	·809	·796	·777	·754
7	·763	·741	·733	·725	·740	·747	·772	·783	·805	·803	·799	·782	·768	·741
8	·773	·755	·748	·740	·748	·757	·770	·782	·806	·810	·811	·790	·775	·749
9	·771	·749	·748	·742	·755	·757	·773	·779	·804	·800	·799	·779	·768	·742
10	·757	·745	·742	·741	·756	·767	·786	·801	·824	·835	·837	·826	·816	·793
11	·808	·795	·801	·797	·816	·829	·851	·867	·894	·896	·894	·881	·867	·844
12	·867	·848	·845	·840	·853	·858	·879	·894	**·912**	·907	·902	·883	·858	·829
13	·841	·823	·825	·823	·837	·840	·861	·871	·892	·889	·886	·861	·850	·822
14	·843	·833	·831	·827	·832	·844	·869	·883	·894	·899	·896	·882	·865	·834
15	·832	·805	·798	·796	·811	·824	·846	·862	·876	·863	·860	·838	·822	·788
16	·818	·797	·789	·783	·802	·808	·830	·840	·855	·847	·842	·816	·797	·753
17	·798	·774	·767	·759	·768	·776	·808	·830	·833	·834	·830	·802	·775	·743
18	·823	·797	·780	·766	·784	·794	·803	·806	·820	·824	·824	·802	·783	·742
19	·774	·757	·750	·753	·759	·762	·776	·789	·812	·815	·813	·807	·773	·740
20	·776	·746	·746	·747	·763	·769	·802	·822	·846	·844	·857	·841	·820	·783
21	·808	·792	·781	·767	·776	·788	·816	·839	·861	·855	·851	·831	·807	·777
22	·793	·771	·772	·766	·775	·782	·803	·826	·843	·841	·839	·815	·790	·767
23	·744	·726	·723	·723	·737	·747	·772	·786	·793	·786	·780	·752	·724	·693
24	·716	·704	·700	·695	·715	·729	·751	·767	·791	·782	·769	·746	·731	·709
25	·716	·696	·702	·692	·707	·712	·732	·744	·761	·754	·742	·727	·700	·671
26	·706	·694	·687	·679	·691	·709	·733	·749	·760	·754	·743	·717	·688	·659
27	·703	·667	·666	·658	·668	·678	·711	·726	·747	·742	·736	·710	·692	·645
28	·717	·701	·696	·687	·696	·704	·723	·735	·760	·769	·762	·747	·724	·691
29	·814	·798	·781	·774	·775	·771	·805	·826	·855	·854	·862	·848	·821	·790
30	·862	·837	·839	·835	·839	·844	·864	·876	·895	·899	·895	·873	·844	·817
Mean .	29·784	29·764	29·759	29·753	29·764	29·771	29·793	29·807	**29·827**	29·836	29·824	29·805	29·786	29·756
Variation.	+·005	—·015	—·020	—·026	—·015	—·008	+·014	+·028	**+·048**	+·047	+·045	+·026	+·007	—·023

OCTOBER.

1	29·851	29·834	29·829	29·811	29·814	29·820	29·843	29·848	29·877	29·870	29·868	29·847	29·821	29·781
2	·772	·769	·766	·757	·758	·768	·793	·812	·835	·828	·822	·790	·752	·710
3	·736	·710	·691	**·678**	·707	·728	·753	·769	·798	·789	·793	·774	·746	·712
4	·768	·748	·747	·747	·760	·773	·796	·799	·821	·821	·824	·806	·778	·760
5	·785	·769	·769	·757	·777	·780	·805	·819	·845	·847	·841	·817	·796	·762
6	·770	·755	·754	·739	·740	·745	·767	·778	·800	·804	·800	·780	·759	·730
7	·747	·730	·734	·735	·748	·747	·778	·795	·817	·820	·816	·794	·778	·751
8	·815	·796	·790	·787	·797	·807	·836	·855	·883	·881	·882	·854	·834	·808
9	·853	·837	·846	·845	·858	·868	·893	·909	·936	·928	·927	·910	·891	·867
10	·895	·881	·880	·874	·885	·894	·921	·958	·979	·975	·961	·927	·902	·883
11	·882	·864	·873	·866	·880	·890	·926	·941	·969	·968	·964	·926	·908	·877
12	·872	·853	·854	·852	·861	·871	·896	·905	·919	·920	·917	·891	·872	·849
13	·852	·834	·838	·836	·844	·854	·884	·903	·920	·918	·914	·882	·867	·834
14	·885	·873	·875	·865	·879	·889	·909	·923	·933	·927	·919	·891	·868	·848
15	·880	·865	·861	·855	·864	·869	·895	·891	·929	·924	·916	·884	·858	·828
16	·852	·836	·828	·816	·830	·835	·854	·864	·882	·882	·874	·845	·817	·801
17	·828	·810	·816	·808	·817	·821	·859	·876	·895	·895	·891	·860	·840	·812
18	·850	·829	·832	·825	·828	·833	·848	·860	·875	·875	·865	·833	·807	·791
19	·827	·806	·806	·793	·803	·812	·840	·850	·873	·873	·863	·843	·834	·809
20	·860	·846	·841	·839	·848	·855	·882	·896	·919	·919	·913	·887	·860	·844
21	·879	·864	·863	·862	·877	·877	·895	·905	·921	·921	·916	·884	·866	·840
22	·855	·838	·831	·830	·841	·850	·877	·886	·896	·891	·886	·855	·829	·808
23	·821	·801	·799	·799	·816	·829	·862	·879	·900	·900	·891	·875	·858	·833
24	·864	·859	·859	·859	·872	·892	·919	·943	·962	·964	·958	·930	·909	·869
25	·889	·873	·875	·874	·892	·905	·937	·951	·969	·971	·961	·923	·911	·880
26	·903	·881	·883	·880	·893	·909	·937	·952	·975	**·983**	·980	·951	·923	·905
27	·904	·881	·874	·870	·879	·890	·918	·942	·962	·973	·966	·935	·919	·880
28	·879	·856	·852	·850	·860	·866	·889	·907	·920	·924	·913	·881	·861	·827
29	·866	·849	·839	·833	·854	·866	·891	·907	·930	·931	·920	·891	·873	·849
30	·876	·864	·857	·853	·863	·876	·898	·915	·936	·945	·927	·898	·872	·847
31	·869	·858	·851	·850	·866	·874	·899	·920	·944	·940	·930	·904	·885	·859
Mean .	29·845	29·828	29·826	29·821	29·833	29·842	29·868	29·883	**29·904**	29·903	29·897	29·870	29·848	29·821
Variation.	—·002	—·019	—·021	—·026	—·014	—·005	+·021	+·036	**+·057**	+·056	+·050	+·023	+·001	—·026

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

SEPTEMBER. (IN INCHES OF MERCURY AT 32° F.)

Hours.										Mean.	Maximum.		Minimum.		Date.
14–15	15–16	16–17	17–18	18–19	19–20	20–21	21–22	22–23	23–24		Time.	Mag.	Time.	Mag.	
											H. M.		H. M.		
29·772	29·760	29·762	29·764	29·776	29·778	29·793	29·798	29·805	29·795	29·792	8 40	29·848	16 16	29·756	1
·738	·729	·734	·735	·748	·758	·770	·781	·786	·772	·771	9 30	·824	15 50	·726	2
·760	·743	·740	·745	·770	·784	·803	·810	·813	·800	·771	22 0	·817	3 5	·723	3
·750	·734	·736	·737	·755	·770	·793	·802	·804	·789	·777	9 20	·812	16 15	·732	4
·755	·734	·733	·743	·764	·765	·785	·788	·785	·774	·766	8 41	·803	16 7	·727	5
·734	·718	·725	·731	·752	·768	·789	·796	·797	·780	·765	10 15	·811	15 25	·713	6
·725	·709	·714	·721	·745	·766	·783	·789	·787	·774	·759	8 42	·807	16 48	·707	7
·735	·720	·726	·730	·750	·760	·778	·785	·785	·771	·765	10 0	·814	15 45	·716	8
·731	·725	·726	·730	·751	·759	·769	·777	·783	·775	·762	8 52	·809	16 45	·721	9
·777	·766	·773	·776	·799	·808	·828	·840	·831	·812	·793	2 32	·845	3 5	·737	10
·834	·827	·833	·839	·861	·870	·891	·893	·886	·872	·852	9 25	·899	15 50	·823	11
·812	·796	·805	·810	·830	·839	·860	·851	·854	·839	**·853**	8 38	**·914**	16 0	·794	12
·801	·778	·785	·789	·816	·831	·849	·859	·860	·844	·839	8 38	·895	16 12	·775	13
·818	·800	·814	·824	·842	·853	·879	·882	·874	·844	·853	9 30	·906	15 32	·796	14
·770	·739	·744	·759	·787	·803	·828	·825	·829	·825	·814	8 7	·880	15 55	·736	15
·723	·705	·723	·742	·775	·793	·809	·814	·813	·803	·795	8 20	·858	15 45	·702	16
·720	·700	·698	·712	·758	·796	·822	·814	·833	·836	·783	23 28	·849	16 48	·691	17
·728	·721	·725	·734	·756	·763	·776	·774	·782	·782	·779	9 20	·827	16 8	·719	18
·713	·711	·726	·737	·752	·766	·788	·797	·803	·793	·769	9 0	·817	15 28	·699	19
·756	·741	·759	·774	·806	·814	·832	·840	·835	·817	·797	10 32	·860	15 35	·736	20
·753	·752	·777	·784	·805	·811	·832	·833	·823	·803	·805	8 43	·864	15 35	·748	21
·742	·724	·727	·730	·742	·747	·767	·761	·758	·746	·776	8 20	·844	16 40	·720	22
·680	·662	·670	·676	·691	·703	·722	·724	·729	·723	·728	8 0	·796	15 35	·658	23
·684	·665	·662	·672	·696	·708	·734	·738	·739	·728	·722	8 50	·796	16 12	·660	24
·648	·639	·641	·646	·666	·680	·702	·700	·705	·708	·700	8 51	·761	15 36	·637	25
·636	·619	·619	·632	·650	·662	·711	·737	·731	·724	·695	8 30	·762	16 20	·618	26
·616	·629	·642	·652	·700	·718	·719	·717	·722	·722	**·691**	8 40	·750	14 53	**·608**	27
·680	·689	·713	·728	·766	·792	·823	·828	·833	·825	·741	21 45	·844	14 17	·676	28
·780	·772	·792	·810	·830	·851	·877	·876	·882	·868	·821	22 9	·884	5 10	·768	29
·793	·778	·788	·795	·818	·837	·870	·888	·884	·854	·847	9 30	·910	15 5	·776	30
29·739	**29·726**	29·734	29·742	29·765	29·778	29·799	29·804	29·805	29·793	29·779					Mean.
—·040	—·**053**	—·045	—·037	—·014	—·001	+·020	+·025	+·026	+·014						Variation.

OCTOBER.

29·766	29·742	29·748	29·756	29·763	29·788	29·814	29·822	29·810	29·794	29·813	8 45	29·878	16 40	29·740	1
·690	·684	·683	·692	·721	·732	·753	·749	·749	·741	·755	8 45	·838	16 42	·680	2
·697	·687	·714	·731	·769	·783	·822	·828	.812	·789	**·751**	20 57	·850	2 38	**·676**	3
·730	·726	·750	·754	·773	·782	·809	·804	·803	·792	·778	9 0	·828	15 30	·724	4
·733	·711	·723	·740	·758	·760	·783	·782	·784	·771	·780	9 22	·851	15 32	·709	5
·717	·704	·719	·723	·740	·745	·771	·772	·770	·758	·756	9 28	·811	15 33	·701	6
·750	·731	·746	·750	·777	·795	·825	·827	·829	·819	·777	22 20	·831	15 35	·728	7
·792	·774	·801	·809	·835	·850	·877	·877	·877	·863	·833	9 0	·888	15 27	·772	8
·849	·841	·848	·849	·876	·899	·918	·918	·921	·904	·882	8 42	·939	2 15	·835	9
·859	·846	·860	·861	·879	·889	·910	·907	·911	·889	·901	8 29	·985	15 40	·845	10
·857	·836	·856	·860	·880	·893	·913	·913	·904	·884	·897	9 35	·970	15 30	·834	11
·823	·807	·819	·830	·853	·867	·881	·879	·882	·866	·868	9 30	·922	16 0	·805	12
·827	·812	·830	·838	·858	·871	·890	·890	·892	·885	·866	9 0	·926	15 35	·808	13
·827	·810	·825	·833	·857	·872	·901	·891	·893	·883	·878	8 20	·935	15 33	·803	14
·809	·796	·809	·813	·825	·841	·859	·867	·874	·860	·861	8 50	·934	15 28	·794	15
·772	·756	·764	·774	·800	·816	·842	·839	·851	·841	·828	9 16	·888	15 37	·755	16
·793	·783	·795	·804	·827	·843	·865	·866	·871	·853	·839	9 27	·901	15 30	·782	17
·773	·757	·769	·772	·804	·815	·834	·835	·834	·824	·824	9 12	·879	15 45	·755	18
·795	·785	·794	·804	·828	·841	·862	·861	·863	·862	·830	9 35	·875	15 40	·783	19
·830	·815	·829	·831	.854	·867	·893	·891	·893	·879	·866	9 20	·921	15 45	·813	20
·827	·821	·833	·833	·858	·872	·884	·880	·879	·863	·872	9 12	·925	15 35	·819	21
·786	·771	·780	·780	·810	·814	·839	·836	·837	·815	·835	8 24	·901	15 38	·767	22
·824	·816	·818	·827	·847	·865	·877	·878	·874	·866	·848	9 15	·906	2 42	·795	23
·856	·840	·849	·854	·871	·882	·907	·903	·899	·889	·892	9 20	.967	15 50	·837	24
·867	·863	·872	·880	·899	·914	·930	·923	·928	·914	·909	9 0	·977	15 40	·859	25
·889	·874	·885	·883	·905	·922	·940	·931	·933	·917	**·918**	9 20	**·989**	15 45	·872	26
·864	·853	·859	·871	·881	·897	·919	·910	·911	·893	·902	9 0	·975	16 0	·851	27
·816	·809	·813	·821	·837	·861	·881	·885	·886	·870	·865	8 50	·929	16 0	·807	28
·840	·828	·839	·841	·859	·880	·892	·895	·903	·894	·874	9 0	·937	15 30	·827	29
·824	·811	·817	·825	·847	·872	·897	·892	·890	·881	·874	8 55	·948	16 10	·809	30
·842	·834	·839	·851	·875	·897	·907	·909	·901	·886	·883	8 22	·947	15 50	·829	31
29·804	**29·791**	29·803	29·809	29·831	29·846	29·868	29·866	29·867	29·853	29·847					Mean.
—·043	—·**056**	—·044	—·038	—·016	—·001	+·021	+·019	+·020	+·006						Variation.

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

NOVEMBER. (IN INCHES OF MERCURY AT 32° F.)

Date.	Hours.													
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	1—12	12—13	13—14
1	29·879	29·864	29·861	29·855	29·859	29·869	29·893	29·913	29·933	29·937	29·921	29·891	29·859	29·833
2	·850	·841	·845	·842	·850	·864	·884	·898	·914	·917	·902	·869	·848	·816
3	·876	·867	·866	·856	·862	·877	·894	·900	·916	·918	·905	·877	·848	·830
4	·867	·850	·847	·829	·829	·834	·852	·859	·884	·883	·879	·851	·820	·787
5	·818	·801	·794	·790	·800	·815	·830	·855	·870	·869	·856	·825	·790	·759
6	·790	·782	·770	·759	·764	·777	·807	·818	·839	·834	·822	·787	·754	·727
7	·814	·799	·796	·804	·815	·825	·846	·870	·889	·891	·882	·852	·830	·792
8	·835	·820	·813	·806	·822	·836	·858	·874	·895	·888	·888	·860	·834	·808
9	·902	·889	·885	·879	·874	·883	·908	·926	·947	·948	·927	·902	·873	·842
10	·917	·906	·891	·879	·882	·889	·907	·922	·932	·934	·916	·883	·839	·809
11	·866	·846	·841	·840	·847	·869	·892	·910	·932	·923	·897	·861	·831	·796
12	·847	·839	·834	·832	·841	·849	·871	·883	·899	·901	·875	·841	·808	·778
13	·805	·791	·782	·781	·791	·799	·825	·854	·873	·867	·859	·815	·785	·765
14	·826	·808	·804	·790	·810	·821	·847	·858	·882	·880	·874	·852	·826	·792
15	·824	·810	·811	·809	·824	·832	·856	·876	·904	·911	·910	·880	·853	·825
16	·875	·856	·849	·846	·855	·867	·894	·910	·934	·932	·921	·894	·870	·825
17	·847	·826	·812	·799	·815	·831	·863	·890	·922	·922	·913	·890	·871	·851
18	·898	·877	·866	·857	·862	·871	·895	·914	·939	·940	·933	·905	·879	·842
19	·881	·868	·866	·859	·872	·882	·907	·924	·952	·957	·947	·917	·898	·874
20	·886	·866	·863	·852	·865	·866	·889	·901	·924	·927	·928	·898	·877	·850
21	·894	·888	·883	·879	·893	·903	·920	·933	·953	·954	·951	·925	·899	·860
22	·908	·891	·890	·887	·895	·899	·923	·949	·977	·982	·973	·950	·926	·897
23	·939	·922	·914	·915	·921	·939	·964	·983	30·002	30·001	·991	·961	·932	·897
24	·945	·932	·935	·931	·944	·949	·973	·996	**·018**	·017	30·006	·971	·941	·905
25	·942	·922	·918	·903	·913	·925	·949	·963	29·983	29·985	29·972	·943	·915	·891
26	·925	·908	·905	·899	·904	·913	·935	·957	·977	·979	·968	·942	·910	·879
27	·938	·924	·914	·905	·908	·916	·937	·957	·977	·987	·970	·947	·927	·897
28	·942	·921	·917	·909	·917	·932	·962	·983	30·010	30·000	·990	·966	·946	·912
29	·916	·898	·897	·891	·903	·915	·933	·948	29·980	29·972	·968	·942	·910	·882
30	·902	·889	·885	·877	·883	·890	·911	·937	·964	·963	·961	·935	·909	·874
Mean .	29·878	29·863	29·858	29·852	29·861	29·871	29·894	29·912	**29·934**	29·934	29·923	29·894	29·867	29·837
Variation.	+·004	—·011	—·016	—·022	—·013	—·003	+·020	+·038	**+·060**	+·060	+·049	+·020	—·007	—·037

DECEMBER.

1	29·888	29·871	29·867	29·854	29·857	29·867	29·889	29·905	29·924	29·928	29·935	29·913	29·885	29·864
2	·900	·885	·882	·875	·881	·892	·917	·944	·970	·974	·962	·936	·914	·892
3	·937	·921	·916	·912	·923	·938	·967	·990	30·013	30·019	30·014	·988	·956	·932
4	·985	·966	·967	·958	·963	·971	·992	30·007	·032	·029	·014	·987	·954	·918
5	·951	·927	·909	·901	·909	·917	·937	29·957	29·982	29·984	29·975	·942	·913	·893
6	·906	·900	·899	·898	·910	·922	·940	·962	·975	·970	·961	·931	·902	·866
7	·915	·907	·911	·901	·905	·917	·927	·946	·976	·978	·972	·944	·910	·891
8	·913	·896	·896	·888	·894	·893	·922	·939	·964	·966	·956	·929	·898	·870
9	·911	·893	·880	·874	·875	·882	·896	·913	·938	·942	·941	·915	·887	·855
10	·898	·883	·878	·868	·869	·871	·893	·915	·946	·954	·947	·919	·897	·853
11	·887	·876	·869	·860	·867	·878	·903	·927	·945	·946	·937	·913	·883	·864
12	·901	·892	·886	·874	·873	·891	·915	·935	·954	·951	·939	·908	·868	·835
13	·872	·865	·857	·851	·857	·861	·880	·895	·915	·917	·908	·881	·858	·832
14	·893	·880	·880	·871	·885	·891	·916	·939	·967	·955	·951	·917	·883	·851
15	·867	·847	·834	·818	·828	·830	·852	·872	·897	·902	·888	·851	·832	·800
16	·832	·818	·809	·794	·794	·812	·838	·858	·886	·885	·882	·855	·834	·801
17	·873	·861	·853	·854	·851	·857	·882	·905	·933	·923	·913	·883	·859	·812
18	·857	·847	·833	·830	·841	·847	·861	·879	·895	·896	·885	·851	·813	·789
19	·875	·864	·858	·844	·846	·852	·870	·882	·896	·889	·884	·872	·860	·832
20	·851	·843	·838	·827	·842	·861	·887	·919	·953	·956	·959	·939	·921	·897
21	·963	·942	·947	·943	·944	·941	·962	·979	30·007	·998	·981	·953	·915	·898
22	·916	·903	·896	·890	·896	·906	·932	·950	29·979	·975	·966	·938	·915	·886
23	·926	·910	·899	·901	·914	·914	·925	·952	·980	·985	·985	·958	·945	·914
24	·966	·949	·937	·933	·943	·949	·963	·979	30·016	30·017	30·016	·990	·963	·933
25	·992	·985	·971	·957	·962	·975	·996	30·019	·042	**·050**	·046	30·009	·986	·970
26	·961	·937	·922	·914	·924	·924	·950	29·960	29·989	·002	29·997	29·970	·951	·916
27	·941	·931	·936	·929	·933	·943	·971	·993	30·019	·011	30·009	·982	·957	·932
28	·971	·958	·950	·946	·946	·952	·986	30·009	·047	·049	·050	30·028	30·001	·965
29	·976	·965	·955	·942	·944	·949	·968	29·987	·010	·016	·009	29·987	29·968	·947
30	·948	·934	·928	·921	·924	·929	·956	·970	29·994	29·993	29·994	·968	·936	·898
31	·914	·900	·900	·889	·894	·890	·908	·930	·961	·968	·968	·938	·909	·889
Mean .	29·916	29·902	29·896	29·888	29·893	29·901	29·923	29·942	29·968	**29·969**	29·963	29·935	29·909	29·880
Variation.	+·005	—·009	—·015	—·023	—·018	—·010	+·012	+·031	+·057	**+·058**	+·052	+·024	—·002	—·031

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

NOVEMBER. (IN INCHES OF MERCURY AT 32° F.)

Hours.										Mean.	Maximum.		Minimum.		Date.
14—15	15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24		Time.	Mag.	Time.	Mag.	
											H. M.		H. M.		
29·813	29·803	29·813	29·810	29·826	29·840	29·864	29·864	29·863	29·856	29·863	9 0	29·945	16 0	29·802	1
·806	·802	·810	·814	·830	·856	·874	·883	·890	·882	·858	9 7	·924	16 0	·801	2
·812	·797	·802	·800	·824	·842	·864	·871	·887	·875	·861	8 30	·924	17 10	·796	3
·771	·767	·777	·779	·799	·820	·840	·842	·838	·828	·831	9 5	·886	16 0	·764	4
·747	·740	·752	·760	·784	·798	·809	·801	·802	·788	·802	9 0	·872	15 58	·738	5
·720	**·718**	·732	·758	·770	·800	·822	·840	·842	·828	**·786**	21 48	·850	15 5	**·714**	6
·778	·770	·779	·785	·822	·839	·852	·847	·848	·829	·827	8 42	·896	16 0	·768	7
·792	·794	·796	·810	·842	·880	·896	·908	·913	·902	·849	22 0	·918	14 50	·788	8
·834	·836	·848	·868	·896	·820	·940	·941	·942	·930	·897	8 45	·954	15 30	·830	9
·795	·794	·802	·819	·853	·885	·911	·910	·901	·879	·877	8 10	·938	15 40	·790	10
·789	·785	·790	·795	·808	·823	·842	·847	·857	·846	·847	8 30	·937	16 0	·783	11
·777	·759	·762	·772	·796	·810	·824	·822	·825	·808	·827	8 48	·907	16 10	·757	12
·750	·739	·764	·767	·799	·817	·834	·833	·843	·829	·807	8 30	·879	15 20	·738	13
·778	·766	·776	·792	·820	·852	·846	·846	·849	·832	·825	8 40	·886	16 5	·763	14
·815	·805	·815	·824	·845	·856	·871	·875	·889	·879	·850	9 15	·912	16 0	·803	15
·809	·798	·806	·819	·844	·855	·870	·872	·873	·858	·864	8 40	·940	15 35	·796	16
·839	·835	·848	·859	·881	·906	·926	·925	·920	·905	**·871**	20 30	·930	3 5	·798	17
·825	·817	·831	·841	·861	·872	·897	·899	·903	·890	·880	8 50	·942	15 45	·815	18
·855	·843	·843	·845	·868	·880	·903	·905	·905	·891	·889	9 25	·963	17 0	·841	19
·847	·845	·853	·857	·877	·890	·906	·907	·913	·899	·883	8 55	**·934**	15 40	·844	20
·846	·853	·856	·859	·879	·891	·911	·912	·919	·908	·899	9 7	·958	16 25	·844	21
·889	·884	·890	·895	·919	·937	·962	·962	·959	·942	·924	8 50	·986	16 0	·882	22
·878	·867	·875	·892	·917	·937	·959	·968	·970	·955	·937	8 45	30·05	16 15	·861	23
·886	·874	·886	·897	·924	·945	·969	·974	·972	·954	**·948**	8 42	**·023**	15 15	·872	24
·885	·873	·880	·886	·907	·924	·948	·952	·951	·936	·928	9 15	29·991	16 15	·865	25
·868	·867	·873	·886	·908	·923	·942	·951	·953	·943	·921	9 0	·985	15 5	·869	26
·881	·873	·874	·893	·917	·935	·959	·955	·953	·942	·929	8 52	·989	16 10	·871	27
·890	·887	·884	·887	·912	·932	·950	·944	·940	·916	·935	8 35	30·016	26 30	·882	28
·869	·852	·859	·862	·883	·893	·906	·911	·917	·902	·909	8 32	29·988	15 45	·848	29
·867	·849	·855	·856	·879	·886	·896	·896	·896	·892	·898	8 45	·969	16 25	·847	30
29·824	**29·816**	29·824	29·833	29·856	29·874	29·893	29·895	29·898	29·884	29·874					Mean.
—·050	—**·058**	—·050	—·041	—·018	·000	+·019	+·021	+·024	+·010						Variation.

DECEMBER.

29·855	29·840	29·849	29·857	29·871	29·887	29·911	29·920	29·924	29·908	29·886	8 50	29·936	16 0	29·839	1
·880	·874	·886	·895	·918	·936	·951	·953	·954	·944	·917	8 37	·980	16 0	·871	2
·913	·912	·923	·934	·964	·983	·998	30·001	30·005	·993	·961	8 42	30·021	3 7	·907	3
·907	·897	·897	·909	·934	·952	·969	29·974	29·973	·959	·963	8 40	·035	16 35	·893	4
·878	**·861**	·865	·879	·897	·911	·919	·925	·927	·912	·920	8 50	29·987	16 20	·857	5
·851	·840	·844	·858	·883	·906	·925	·931	·933	·922	·910	8 5	·978	16 0	·838	6
·874	·866	·869	·880	·899	·916	·940	·939	·932	·919	·918	8 55	·982	16 25	·865	7
·857	·850	·854	·859	·884	·908	·929	·929	·928	·918	·906	8 35	·970	16 55	·848	8
·833	·823	·829	·844	·874	·897	·914	·917	·916	·903	·890	9 20	·951	15 35	·821	9
·841	·828	·838	·842	·863	·881	·905	·909	·908	·896	·888	9 5	·963	15 46	·827	10
·843	**·837**	·845	·851	·870	·885	·912	·918	·919	·906	·889	9 5	·965	15 30	·836	11
·822	·814	·817	·825	·846	·858	·875	·880	·880	·873	·880	8 31	·965	16 0	·813	12
·810	·808	·822	·832	·858	·881	·902	·906	·912	·900	·870	8 22	·928	15 25	·806	13
·825	·819	·825	·831	·852	·863	·880	·879	·871	·861	·883	8 35	·971	16 5	·817	14
·782	**·780**	·788	·797	·820	·833	·851	·849	·849	·835	·838	8 47	·912	15 12	·778	15
·784	·788	·799	·806	·839	·852	·880	·876	·886	·874	**·837**	8 35	·890	15 15	·782	16
·797	·790	·793	·801	·830	·857	·878	·884	·880	·865	·860	8 40	·939	16 10	·781	17
·782	·781	·797	·825	·856	·882	·905	·911	·909	·896	·853	20 55	917	14 38	**·769**	18
·823	·820	·821	·822	·834	·844	·864	·870	·863	·853	·856	8 25	·902	17 16	·808	19
·892	·893	·906	·917	·942	·963	·976	·975	·968	·961	·912	20 30	·981	3 55	·817	20
·879	·872	·879	·888	·911	·924	·943	·937	·939	·923	·936	8 30	30·011	15 10	·869	21
·877	·878	·890	·896	·915	·932	·952	·948	·952	·933	·922	8 25	29·988	14 42	·874	22
·901	·890	·894	·909	·943	·954	·981	·978	·976	·968	·938	9 25	·990	16 0	·888	23
·925	·920	·925	·931	·957	·979	30·010	30·012	30·011	·998	·968	9 0	30·023	16 0	·919	24
·951	·934	·931	·934	·951	·960	29·979	29·975	29 974	·962	·980	9 0	**·058**	17 0	·930	25
·910	·890	·888	·898	·916	·929	·942	·948	·949	·939	·939	9 5	·008	15 25	·886	26
·911	·901	·908	·910	·936	·947	·971	·977	·977	·968	·954	8 35	·027	16 0	·897	27
·945	·943	·950	·957	·971	·985	30·008	30·010	30·005	·989	**·984**	9 55	·058	15 10	·940	28
·932	·912	·922	·927	·946	·956	29·974	29·969	29·973	·959	·962	8 30	·020	15 45	·908	29
·882	·870	·875	·878	·900	·908	·927	·937	·936	·918	·930	9 0	29·997	15 45	·865	30
·869	·860	·869	·871	·889	·903	·921	·926	·925	·911	·908	9 0	·975	15 45	·859	31
29·866	**29·858**	29·864	29·873	29·896	29·912	29·932	29·934	29·934	29·921	29·911					Mean.
—·045	—**·053**	—·047	—·038	—·015	+·001	+·021	+·023	+·023	+·010						Variation.

(Totals for periods of sixty minutes from full hour to full hour of local mean time.)

JUNE. (FROM PLUVIOGRAPH RECORDS.)

Date.	Hours.													
	0–1	1–2	2–3	3–4	4–5	5–6	6–7	7–8	8–9	9–10	10–11	11–12	12–13	13–14
1	..	0·07	..	..	..	..	..	..	..	..	..	..	..	..
2	..	..	..	..	..	..	..	..	..	..	..	..	..	..
3	1·06	0·04	0·37	..	..	..	0·33	..	..	..	..	..	..	..
4	..	..	0·19	..	..	..	..	..	..	..	..	..	..	..
5	..	..	..	..	..	..	0·06	..	..	..	..	0·01	..	0·62
6	0·01	0·34	0·53	0·36	0·13	0·07	0·03	0·04	..	..	..	..	0·14	0·82
7	0·26	0·11	0·01	..	0·02	0·02	0·03	0·15	0·10	0·02	..	..	0·13	0·02
8	0·07	0·11	..	0·06	0·01	0·39	..	..	..	0·01	..	..	..	..
9	0·10	0·06	..	..	..	..	..	..	..	..	0·06	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..
11	..	..	..	..	..	..	..	..	..	..	..	..	..	..
12	..	..	..	..	..	..	..	..	..	..	0·02	0·05	0·01	0·12
13	0·07	0·01	0·01	..	..	0·05	0·02	0·01	0·01	0·02	..	..	..	0·06
14	..	0·06	0·10	0·11	..	0·08	0·06	0·80	..	..	..	..	..	..
15	0·01	..	..	..	..	..	..	..	..	..	..	..	..	..
16	0·01	..	..	..	..	..	..	..	..	..	..	..	..	..
17	0·06	0·10	0·12	..	..	..	..	..	..	..	0·23	1·38	0·40	..
18	0·22	0·04	0·06	..	..	..	..	..	..	..	..	..	..	..
19	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..
21	..	..	..	0·04	0·01	0·08	..	..	..	..	0·01	0·01	0·02	0·02
22	0·04	..	..	..	..	0·39	0·01	0·54	..	..	..	..	..	..
23	..	..	..	..	..	..	..	..	..	0·08	0·01	..	..	..
24	0·01	..	0·09	0·06	0·01	0·02	0·20	0·17	0·11	0·13	0·05	..	..	..
25	0·02	0·01	..	..	..	..	..	..	0·02	..	..	..	0·03	0·03
26	..	0·01	0·39	0·61	..	0·05	0·08	0·01	0·01	..	..	..	..	..
27	..	..	..	..	..	..	..	..	..	..	..	..	..	..
28	..	..	..	..	..	..	..	..	..	..	..	..	..	..
29	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	0·01	..	..	..	..	..	0·01	0·05	..	..	0·03	0·01	0·18
Total .	1·74	0·97	1·87	1·24	0·18	1·15	0·82	1·73	0·30	0·26	0·38	1·48	0·74	1·87

JULY.

1	0·07	0·01	..	0·13	0·02	0·01	0·27	..	..	..	0·29	0·15	0·01	0·04
2	..	0·04	0·05	..	0·08	..	..	..	..	..	..	..	..	..
3	0·52	0·24	0·18	0·04	..	0·17	0·37	0·07	0·01	..	..	..	..	..
4	..	0·01	0·17	0·39	0·07	0·06	0·02	..	..	..	0·06	..	0·02	..
5	..	0·01	..	0·01	..	0·01	..	..	0·07	0·06	0·01	..	..	..
6	..	..	0·01	..	..	..	..	..	..	..	0·26	0·02	0·16	..
7	0·07	0·24	0·16	0·03	..	..	..	..	..	..	..	..	..	..
8	..	..	..	..	..	..	..	..	..	..	..	..	..	..
9	..	..	..	..	..	..	..	0·42	0·10	0·02	..	..	..	0·02
10	..	0·02	..	..	..	..	..	..	..	0·02	..	0·03	0·16	1·15
11	0·01	..	..	0·04	0·01	0·06	..	..	0·20	..	0·05	..	0·08	0·02
12	..	0·02	0·02	0·02	0·07	..	0·03	..	..	..	..	..	..	..
13	..	..	..	..	..	..	..	..	0·02	..	0·02	..	..	0·02
14	..	..	0·01	..	..	..	..	..	..	..	..	..	..	..
15	..	..	0·02	..	..	0·09	0·04	0·02	..	..	..	..	..	..
16	..	..	..	..	0·01	0·03	..	..	..	..	..	..	..	..
17	0·06	..	..	..	0·01	..	..	..	..	..	..	..	..	..
18	..	..	..	..	..	..	..	0·03	..	..	..	..	0·01	..
19	..	..	..	..	..	..	..	..	..	..	..	0·02	0·06	..
20	..	..	..	..	..	0·11	..	..	..	..	..	0·08	..	..
21	..	..	..	..	..	..	..	..	..	..	..	..	..	..
22	..	..	..	..	..	..	..	..	..	..	..	..	..	..
23	..	..	0·02	0·01	0·01	..	..	..	..	0·02	..	..	..	0·01
24	..	..	..	..	..	..	..	..	..	..	0·06	..	0·02	..
25	..	..	..	..	..	..	..	0·01	..	..	..	..	..	..
26	..	0·12	..	..	..	..	..	0·14	..	..	..	..	..	0·02
27	..	..	..	..	..	..	..	..	..	..	..	..	..	..
28	..	..	..	0·01	0·02	0·02	..	..	..	..	..	..	0·01	..
29	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..
31	..	..	0·18	0·02	..	..	..	0·01	..	..	..	..	..	..
Total .	0·73	0·71	0·82	0·70	0·30	0·56	0·73	0·70	0·40	0·12	0·75	0·30	0·53	1·28

(Totals for periods of sixty minutes from full hour to full hour of local mean time.)

JUNE. (FROM PLUVIOGRAPH RECORDS.)

Hours.										Daily Total.	Maximum fall in one hour.	Time of occurrence.	Daily* total by Newman.	Date.
14–15	15–16	16–17	17–18	18–19	19–20	20–21	21–22	22–23	23–24			H. to H.		
..	..	..	0·01	..	..	..	..	..	..	0·08	0·07	1 2	0·08	1
..	..	..	..	..	..	..	..	..	0·02	0·02	0·02	23 24	0·02	2
..	..	..	..	..	..	..	..	..	..	1·80	1·06	0 1	2·01	3
..	..	..	..	..	..	..	..	..	..	0·19	0·19	2 3	0·18	4
2·59	0·02	..	..	..	..	0·85	0·66	0·43	0·02	**5·26**	**2·59**	14 15	**5·29**	5
0·01	0·01	0·01	0·03	..	0·14	..	0·73	0·10	0·12	3·62	0·82	13 14	3·73	6
..	0·02	0·04	0·16	0·01	..	..	..	..	..	1·10	0·26	0 1	1·14	7
0·17	0·10	..	0·06	0·01	0·02	..	0·49	0·01	0·01	1·52	0·49	21 22	1·60	8
..	..	..	..	..	..	..	..	..	..	0·22	0·10	0 1	0·24	9
..	..	..	..	..	..	..	..	..	..	..	..	..	..	10
..	..	..	..	..	..	..	..	..	..	..	..	..	..	11
..	..	..	0·02	..	..	..	..	..	..	0·22	0·12	13 14	0·22	12
..	0·12	0·14	0·01	0·05	0·09	..	..	..	..	0·67	0·14	16 17	0·67	13
..	..	..	..	..	..	0·02	0·01	..	0·04	1·28	0·80	7 8	1·33	14
..	..	..	..	..	..	..	..	..	0·07	0·08	0·07	23 24	0·08	15
..	..	..	..	0·16	..	..	..	0·11	1·65	1·93	1·65	23 24	1·97	16
..	..	..	..	..	..	..	..	0·05	0·14	2·48	1·38	11 12	2·50	17
..	..	..	..	..	..	..	..	..	..	0·12	0·06	2 3	0·13	18
..	..	..	..	..	..	..	..	..	..	..	..	..	..	19
..	..	..	..	..	..	..	..	..	..	..	..	..	..	20
0·01	..	..	..	..	..	..	0·01	0·01	..	0·22	0·08	5 6	0·20	21
..	..	..	..	..	..	..	..	..	..	0·98	0·54	7 8	0·97	22
..	..	..	..	..	..	..	..	..	0·31	0·40	0·31	23 24	0·43	23
..	..	..	0·06	0·01	..	..	..	..	0·01	0·93	0·17	7 8	0·92	24
..	..	0·02	..	0·02	0·24	..	..	0·01	..	0·40	0·24	19 20	0·40	25
..	..	..	0·04	0·01	..	..	..	..	0·01	1.22	0·61	3 4	1·29	26
..	..	..	..	..	0·02	..	..	..	..	0·02	0·02	19 20	0·02	27
..	..	..	..	..	..	..	..	..	..	..	..	..	..	28
..	..	..	..	0·01	..	..	..	..	..	0·01	0·01	18 19	0.01	29
0·02	0·06	0·07	0·02	0·13	0·08	0·01	..	..	..	0·68	0·18	13·14	0·66	30
2·80	0·33	0·28	0·41	0·41	0·59	0·88	1·90	0·72	2·40	25.45	..	..	26·09	Total.

JULY.

0·08	..	..	..	..	..	0·02	0·05	..	..	1·15	0·29	10 11	1·20	1
0·04	..	..	..	0·02	..	1·19	0·53	0·53	0·36	2.84	**1·19**	20 21	2·81	2
..	..	..	..	..	..	..	..	..	..	1·60	0·52	0 1	1·64	3
0·05	0·03	0·02	0·06	0·07	..	..	..	..	..	1·03	0·39	3 4	1·05	4
..	..	..	..	..	..	0·02	0·11	..	..	0·30	0·11	21 22	0·29	5
..	..	0·02	0·01	0·01	..	..	..	..	..	0·49	0·26	10 11	0·48	6
..	..	..	..	..	..	..	..	..	..	0·50	0·24	1 2	0·50	7
..	..	..	..	..	..	..	..	..	..	..	..	..	..	8
..	0·08	..	..	..	..	0·09	..	0·25	0·02	1·00	0·42	7 8	1·00	9
0·52	0·35	0·46	0·07	0·24	0·01	..	0·04	0·17	0·03	**3·27**	1·15	13 14	**3·29**	10
..	0·38	0·02	0·05	..	..	..	..	..	..	0·92	0·38	15 16	0·92	11
..	..	0·01	0·05	..	..	..	..	..	0·01	0·23	0·07	4 5	0·23	12
..	..	..	..	0·01	0·02	..	..	..	..	0·09	0·02	8 9	0·09	13
..	..	..	..	..	..	..	..	..	..	0·01	0·01	2 3	0·01	14
..	..	0·04	0·03	..	..	..	..	..	..	0·24	0·09	5 6	0·24	15
..	..	..	..	..	..	..	..	..	..	0·04	0 03	5 6	0·04	16
..	..	..	0·05	0·01	..	..	..	..	..	0·13	0·06	0 1	0·14	17
..	..	..	..	..	..	..	0·04	0·01	..	0·09	0·04	21 22	0·10	18
..	..	..	..	..	..	..	0·06	..	..	0·14	0·06	12 13	0·14	19
..	0·01	..	..	..	..	..	..	..	..	0·20	0·11	5 6	0·20	20
..	..	..	..	..	..	..	0·01	..	..	0·01	0·01	21 22	0·01	21
..	..	..	..	..	..	..	..	..	..	..	..	..	..	22
0·03	..	..	..	..	..	..	..	..	..	0·10	0·03	14 15	0·11	23
0·02	0·02	..	..	..	..	0·02	..	..	..	0·14	0·06	10 11	0·14	24
..	..	..	..	0·04	..	..	..	..	..	0·05	0·04	18 19	0·05	25
0·09	..	..	..	..	..	..	0·01	..	..	0·38	0·14	7 8	0·39	26
..	..	..	..	..	..	..	..	..	..	..	..	..	0·01	27
..	..	..	..	..	..	..	..	..	..	0·06	0·02	4 5	0·06	28
..	..	..	..	..	..	..	..	..	..	..	..	..	..	29
..	..	..	0·08	0·01	..	..	..	..	..	0·09	0·08	17 18	0·09	30
..	..	..	..	0·08	0·10	0·03	0·08	..	0·05	0·55	0·18	2 3	0·55	31
0·83	0·87	0·57	0·40	0·49	0·13	**1.37**	0·93	0·96	0·47	15·65	..	..	15·78	Total.

* Adopted as the standard instrument in the Observatory since 1845.

RAINFALL (IN INCHES), 1929.

(Totals for periods of sixty minutes from full hour to full hour of local mean time.)

AUGUST.

(FROM PULVIOGRAPH RECORDS.)

Date.	Hours.													
	0–1	1–2	2–3	3–4	4–5	5–6	6–7	7–8	8–9	9–10	10–11	11–12	12–13	13–14
1	0·01	0·02	0·01	0·01	..	0·01	..	..	..	0·05	0·07	0·03	..	..
2	..	0·11	0·05	0·01	..	0·02	0·01	..	..	..	..	..	..	..
3	0·01	..	..	0·02	0·14	0·05	..	..	..	..	0·01	..	..	..
4	..	..	..	0·03	0·02	0·01	..	..	0·01	..	..	..	..	..
5	..	..	..	..	..	..	..	..	..	..	0·20	..	0·01	..
6	..	..	0·01	..	..	..	0·08	0·01	..	..	..	..	..	..
7	..	..	..	..	..	..	..	..	..	0·01	..	..	..	..
8	..	..	..	..	..	..	..	..	..	0·01	..	0·04	0·01	..
9	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	0·01	..	..	..	..	..	0·11	0·15	..
11	..	..	0·03	..	..	..	..	..	..	..	..	..	..	..
12	..	..	..	..	..	..	..	..	..	..	..	..	..	..
13	..	..	0·01	..	..	..	..	..	..	..	..	..	..	..
14	..	..	..	..	..	..	..	..	..	..	..	..	..	..
15	..	..	..	..	..	..	..	0·02	0·02	0·01	..	..	..	..
16	..	..	..	..	..	0·02	..	..	0·01	..	..	..	..	..
17	..	..	..	..	..	0·04	..	..	..	..	..	..	..	..
18	..	0·09	..	0·11	0·01	..	0·04	..	0·23	0·04	..	..	..	..
19	..	0·01	..	..	..	..	0·01	..	0·05	..	..	..	..	..
20	..	..	..	..	..	0·04	0·02	..	..	..	..	..	..	..
21	0·02	..	..	..	..	..	..	..	..	0·01	..	..	..	0·01
22	..	..	0·04	..	..	..	..	..	..	..	0·11	0·05	..	..
23	..	..	..	..	..	..	..	..	..	..	..	..	..	..
24	..	0·02	0·04	0·04	..	0·06	0·02	0·09	..	0·01	..	..	..	..
25	..	..	..	0·02	..	..	0·01	0·02	0·14	0·16	0·01	..	..	..
26	..	..	0·01	..	..	..	0·03	0·22	..	..	0·01	..	..	..
27	..	..	..	..	..	..	..	..	..	..	..	..	..	..
28	0·08	..	0·01	..	..	..	..	..	..	..	..	..	0·02	..
29	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	0·01	..	..	..	..	..	..	..	..	..
31	..	..	..	..	..	..	..	..	..	..	..	0·03	..	0·04
Total ..	0·12	0·25	0·21	0·24	0·18	0·26	0·22	0·36	0·46	0·30	0·41	0·26	0·19	0·05

SEPTEMBER.

1	..	..	0·05	..	..	0·01	..	..	..	..	..	..	0·03	..
3	..	..	..	..	..	..	..	..	0·03	..	..	..	..	..
5	..	..	..	..	..	..	..	..	0·05	..	..	..	..	..
6	..	..	..	0·23	..	..	0·23	0·02	..	..	0·07	..	..	..
7	0·01	..	..	..	..	..	0·01	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	0·03	..	..	..	..	..
16	..	..	..	..	..	..	..	..	..	..	..	..	..	..
17	..	..	..	..	..	0·01	..	..	..	..	..	..	..	..
18	0·24	0·02	..	..	..	..	0·07	..	..	..	..	..	..	..
19	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..
26	..	..	..	..	..	..	..	..	..	..	..	..	..	..
27	0·06	0·01	..	..	..	..	..	..	..	..	..	..	..	..
28	..	..	..	..	..	..	..	..	..	..	..	..	..	..
29	0·04	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Total .	0·35	0·03	0·05	0·23	..	0·02	0·31	0·02	0·11	..	0·07	..	0·03	..

(Totals for periods of sixty minutes from full hour to full hour of local mean time.)

AUGUST.

(FROM PULVIOGRAPH RECORDS.)

Hours.										Daily total.	Maximum fall in one hour.	Time of occurrence.	Daily* total by Newman.	Date.
14–15	15–16	16–17	17–18	18–19	19–20	20–21	21–22	22–23	23–24			H. to H.		
..	0·16	0·10	0·01	..	..	0·02	..	..	..	0·50	0·16	15 16	0·51	1
..	..	..	..	..	..	..	..	..	..	0·20	0·11	1 2	0·22	2
..	..	..	..	..	..	..	..	..	..	0·23	0·14	4 5	0·23	3
..	..	0·02	..	..	..	..	..	..	..	0·09	0·03	3 4	0·09	4
..	..	..	..	..	..	..	..	..	0·08	0·29	0·20	10 11	0·29	5
..	..	..	..	..	..	..	..	..	..	0·10	0·08	6 7	0·10	6
0·02	..	..	..	..	0·01	..	..	..	..	0·04	0·02	14 15	0·04	7
..	0·02	..	..	..	..	..	..	..	..	0·08	0·04	11 12	0·08	8
..	..	..	..	..	..	..	0·04	..	..	0·04	0·04	21 22	0·04	9
..	..	..	..	0·06	0·03	..	..	..	..	0·36	0·15	12 13	0·36	10
..	..	..	..	..	..	..	..	..	..	0·03	0·03	2 3	0·03	11
..	..	..	..	..	..	..	0·01	..	..	0·01	0·01	21 22	0·01	12
..	..	..	..	..	..	..	0·16	..	..	0·17	0·16	21 22	0·17	13
..	..	..	..	..	..	..	..	..	..	..	..	..	..	14
..	..	..	..	..	..	..	0·06	0·02	0·01	0·14	0·06	21 22	0·15	15
..	..	..	..	..	..	..	0·02	..	..	0·05	0·02	5 6	0·05	16
..	..	..	..	..	..	..	..	..	..	0·04	0·04	5 6	0·04	17
..	..	..	..	..	0·01	..	..	..	0·01	0·54	0·23	8 9	0·53	18
..	..	..	..	..	..	0·10	0·01	..	..	0·18	0·10	20 21	0·18	19
..	..	..	..	0·02	..	..	0·22	..	..	0·30	0·22	21 22	0·29	20
..	0·02	0·05	0·17	0·36	0·15	0·07	..	..	..	**0·86**	**0·36**	18 19	**0·88**	21
..	..	0·10	0·02	..	..	..	..	..	..	0·32	0·11	10 11	0·32	22
..	..	0·01	0·03	..	..	..	..	..	..	0·04	0·03	17 18	0·04	23
..	..	..	..	..	..	..	..	..	..	0·28	0·09	7 8	0·27	24
..	..	..	..	..	..	..	..	..	..	0·36	0·16	9 10	0·37	25
..	..	..	..	..	..	..	..	..	..	0·27	0·22	7 8	0·27	26
..	0·01	0·01	..	..	..	..	..	..	..	0·02	0·01	15 16	0·02	27
..	..	..	..	..	..	..	..	..	..	0·11	0·08	0 1	0·11	28
..	..	..	..	..	..	..	..	..	0·02	0·02	0·02	23 24	0·02	29
..	..	..	..	..	..	..	..	..	..	0·01	0·01	4 5	0·01	30
..	..	..	..	0·05	0·01	..	..	..	..	0·13	0·05	18 19	0·13	31
0·02	0·21	0·29	0·23	0·49	0·21	0·19	**0·52**	0·02	0·12	5·81	..	..	5·85	Total.

SEPTEMBER.

..	..	..	..	..	..	..	..	..	..	0·09	0·05	2 3	0·09	1
..	..	..	..	..	..	..	..	..	..	0·03	0·03	8 9	0·03	3
0·01	0·02	0·01	..	..	..	..	..	..	..	0·09	0·05	8 9	0·09	5
..	..	..	..	..	..	..	..	0·17	0·01	0·73	0·23	3 4	0·78	6
..	..	..	..	..	..	..	..	..	0·01	0·03	0·01	0 1	0·03	7
..	..	..	..	..	..	..	..	..	..	0·03	0·03	8 9	0·03	10
..	..	..	..	..	0·01	0·03	..	..	..	0·04	0·03	20 21	0·04	16
..	..	..	..	0·03	0·44	0·23	0·12	..	0·74	**1·57**	**0·74**	23 24	**1·57**	17
..	..	..	..	..	..	..	..	..	..	0·33	0·24	0 1	0·33	18
..	..	..	0·11	0·02	0·01	..	..	..	..	0·14	0·11	17 18	0·14	19
..	..	..	0·02	0·02	..	..	..	..	..	0·04	0·02	17 18	0·04	20
..	..	..	..	..	..	0·38	0·13	0·02	0·05	0·58	0·38	20 21	0·58	26
..	0·04	..	0·08	0·19	0·01	0·02	..	..	..	0·41	0·19	18 19	0·41	27
..	..	..	..	..	0·20	0·34	0·35	0·33	0·03	1·25	0·35	21 22	1·25	28
..	..	..	..	..	..	..	..	..	..	0·04	0·04	0 1	0·04	29
..	..	..	..	..	..	0·03	0·44	0·45	0·09	1·01	0·45	22 23	1·04	30
0·01	0·06	0·01	0·21	0·26	0·67	1·03	**1·04**	0·97	0·93	6·41	..	..	6·49	Total.

* Adopted as the standard instrument in the Observatory since 1845.

(Totals for periods of sixty minutes from full hour to full hour of local mean time.)

(FROM PULVIOGRAPH RECORDS.)

OCTOBER.*

Date.	Hours.													
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13	13—14
1	0·02	..	..	..	..	..	..	..	..	..	..	..	0·08	..
2	0·01	..	..	..	..	..	..	..	..	..	..	..	..	..
3	..	0·01	..	..	..	..	..	..	..	..	..	..	..	..
4	0·01	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	0·02	..	0·25	0·50	0·24	0·10	0·01	..	..	..
Total .	0·04	0·01	..	..	0·02	..	0·25	0·50	0·24	0·10	0·01	..	0·08	..

NOVEMBER.*

Date.	Hours.													
	0–1	1–2	2–3	3–4	4–5	5–6	6–7	7–8	8–9	9–10	10–11	11–12	12–13	13–14
6	..	..	..	..	..	..	..	..	..	..	..	..	..	..
7	0·02	0·01	..	..	..	..	..	..	..	..	..	..	..	..
8	..	..	..	..	9·01	..	..	..	..	..	..	..	..	..
Total .	0·02	0·01	..	..	0·01	..	..	..	..	..	..	..	..	..

(Totals for periods of sixty minutes from full hour to full hour of local mean time.)

(FROM PLUVIOGRAPH RECORDS.

OCTOBER.*

Hours.										Daily total.	Maximum fall in one hour.	Time of occurrence.	Daily total† by Newman.	Date.
14—15	15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24			H. to H.		
..	0·01	..	..	..	..	..	0·57	..	0·03	0·71	0·57	21 22	0·72	1
..	..	..	0·03	..	..	..	..	..	..	0·04	0·03	17 18	0·04	2
..	..	..	..	..	..	1·31	0·44	0·08	0·01	1·85	1·31	20 21	1·88	3
..	..	..	..	..	..	..	..	..	..	0·01	0·01	0 1	0·01	4
..	..	..	..	..	..	..	..	..	..	1·12	0·50	7 8	0·13	10
..	0·01	..	0·03	..	..	1·31	1·01	0·08	0·04	3·73	..	..	3·78	

NOVEMBER.*

Hours.										Daily total.	Maximum fall in one hour.	Time of occurrence.	Daily total† by Newman.	Date.
14–15	15–16	16–17	17–18	18–19	19–20	20–21	21–22	22–23	23–24			H. to H.		
..	..	..	..	..	..	..	0·02	0·05	0·11	0·18	0·11	23 24	0·18	6
..	..	..	..	..	..	..	..	..	..	0·03	0·02	0 1	0·03	7
..	..	..	..	..	..	..	..	..	..	0·01	0·01	4 5	0·01	8
..	..	..	..	..	..	..	0·02	0·05	0·11	0·22	..	..	0·22	Total.

* No rainfall occurred on the days of the month not mentioned in this table.

† Adopted as the standard instrument in the Observatory since 1845.

NOTE.—There was a fall of 0·63″ of rain on the 27th January between 8h and 10h, 0·02″ on the 20th March between 22h and 23h, 0·01″ on the 9th April between 4h and 5h, 0·02″ on the 22nd April between 22h and 23h, 0·01″ on the 23rd April between 7h and 8h, 0·84″ on the 19th December between 20h and 22h, and 0·02″ on the 20th December between 5h and 6h. The months of February and May were dry.

Total fall of rain in the year was 58·82″ by Pluviograph and 59·76″ by Newman; the difference is due to the difference in heights of the receiving funnels of the two instruments.

Total number of rainy days in the year was 71 according to Pluviograph and 72 according to Newman, assuming rainy day to be one on which a tenth of an inch or upwards has fallen.

The greatest fall of rain during a day in the year, that of the 5th June, was 5·26″ by Pluviograph and 5·29″ by Newman.

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

JANUARY. (IN MILES PER HOUR.)

Date.	Hours.														
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13	13—14	14—15
1	13	13	14	13	14	15	15	14	16	14	11	10	14	20	21
2	11	11	11	15	20	18	19	22	17	15	12	11	9	11	13
3	13	7	10	12	13	15	14	14	13	14	12	10	10	12	12
4	4	9	9	11	15	14	14	13	12	14	13	9	10	14	16
5	10	12	11	13	16	14	12	11	12	14	14	14	13	12	12
6	9	11	15	17	18	19	19	21	20	20	16	17	17	13	10
7	2	7	12	15	15	18	19	18	18	18	16	14	13	11	10
8	11	8	7	9	12	14	15	15	14	10	8	7	6	8	11
9	9	6	7	6	7	7	8	7	10	8	8	7	8	11	12
10	12	9	4	4	7	10	10	8	7	7	6	5	10	14	17
11	10	8	9	10	10	9	8	6	8	9	6	6	11	13	17
12	7	8	13	16	14	12	11	10	10	8	6	5	10	13	12
13	8	12	8	9	7	8	8	7	7	7	6	9	12	14	16
14	13	11	10	9	10	11	10	8	8	12	5	12	16	17	16
15	14	11	10	9	9	9	10	11	11	10	6	9	12	16	15
16	13	8	9	9	10	9	10	10	10	9	8	10	11	12	12
17	7	7	7	8	10	11	13	12	14	11	11	8	8	13	16
18	10	10	6	10	10	14	13	11	9	10	9	9	13	14	16
19	10	9	8	8	8	9	11	9	8	11	15	16	16	15	17
20	9	9	9	5	8	8	8	10	9	8	7	8	16	19	21
21	10	11	11	12	14	13	14	10	8	12	7	13	17	18	21
22	7	7	7	11	10	10	9	8	11	11	10	8	9	13	15
23	7	11	10	6	4	7	11	11	13	10	7	7	6	8	9
24	3	8	11	11	10	10	11	10	11	9	9	7	9	10	10
25	10	9	6	5	4	7	9	9	10	9	7	12	13	15	15
26	8	8	9	9	11	10	10	9	10	10	9	7	8	9	9
27	5	8	12	11	9	8	11	12	9	9	1	13	16	17	17
28	11	10	9	10	9	10	12	13	13	14	15	15	12	8	9
29	10	8	8	9	10	11	12	11	9	12	14	14	19	22	25
30	12	15	21	21	19	16	15	12	12	13	19	11	13	22	24
31	15	17	20	18	15	15	12	11	12	10	14	16	20	23	25
Mean ..	9·5	9·6	10·1	10·7	11·5	11·6	12·0	11·4	11·3	11·2	9·9	10·3	12·2	14·1	15·2

FEBRUARY.

1	11	12	14	15	16	14	14	14	15	12	12	12	12	13	18
2	15	16	22	22	20	22	20	21	21	18	13	13	9	8	10
3	13	8	8	11	11	12	10	11	11	10	9	12	12	14	14
4	11	11	11	10	11	11	7	6	4	4	13	17	18	18	18
5	11	8	7	10	9	7	7	8	8	8	7	8	12	14	15
6	7	7	6	10	11	8	11	7	10	9	8	10	10	12	12
7	10	10	11	15	13	13	15	14	15	10	11	15	13	12	13
8	4	7	7	8	11	11	11	12	11	9	8	8	9	10	11
9	7	7	5	6	8	9	10	8	9	8	6	7	12	15	17
10	12	7	9	9	9	8	7	6	6	10	13	14	18	19	22
11	14	12	13	16	14	14	11	12	13	11	14	17	18	19	20
12	8	12	5	7	9	9	11	12	9	9	7	6	10	13	14
13	9	8	7	5	7	8	10	10	9	11	8	14	17	19	18
14	16	7	15	18	19	17	15	11	10	9	13	15	15	18	23
15	9	17	6	8	10	9	11	11	7	7	7	8	13	14	13
16	6	8	4	4	5	6	5	8	7	5	5	11	15	14	15
17	11	5	15	12	10	7	8	8	7	7	6	7	15	15	17
18	9	12	11	11	11	12	11	10	9	10	7	14	15	15	15
19	6	10	13	17	16	14	13	10	10	11	8	13	18	20	21
20	13	11	14	11	10	9	11	10	10	7	7	13	13	13	15
21	8	11	9	8	8	8	7	8	8	6	8	8	9	11	13
22	3	9	2	2	1	3	4	4	6	8	8	9	11	13	15
23	9	2	12	11	11	7	5	5	3	2	9	11	13	12	13
24	13	9	12	15	14	12	9	3	6	6	4	4	11	13	14
25	7	13	6	6	7	7	9	8	5	5	8	7	9	11	13
26	12	7	10	8	6	7	7	6	5	3	4	5	9	10	10
27	6	13	8	8	5	4	4	9	8	5	6	5	7	10	10
28	5	5	7	8	7	5	4	4	4	5	3	8	11	12	12
Mean ..	9·5	9·4	9·6	10·4	10·3	9·7	9·5	9·1	8·8	8·0	8·3	10·4	12·6	13·8	15·0

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

JANUARY. (IN MILES PER HOUR.)

Hours.									Mean.	Mean by R. Beckley's Anemograph.	Maximum.		Minimum.		Date.
15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24			Time.	Mag.	Time.	Mag.	
											H. M.		H. M.		
21	22	22	22	21	16	14	13	13	15·9	7·9	17 40	30	11 50	6	1
14	17	19	18	18	16	16	13	12	14·9	7·4	4 30	26	13 20	7	2
12	14	18	18	19	17	12	8	6	12·7	6·1	19 20	26	7 15	4	3
17	16	18	20	20	20	13	12	11	13·5	6·5	18 20	28	11 45	6	4
14	16	18	18	19	20	16	10	6	13·6	6·4	20 11	27	23 10	4	5
9	13	17	18	17	16	15	13	8	15·3	7·8	18 5	25	20 0	4	6
14	16	16	18	19	20	19	14	14	14·8	7·9	21 5	25	1 15	2	7
15	19	23	21	14	10	11	10	8	11·9	5·7	17 18	31	12 40	1	8
12	14	14	13	12	9	4	9	11	9·1	4·2	16 25	20	7 15	3	9
20	20	18	18	18	15	10	9	9	11·1	5·7	16 50	28	11 18	2	10
18	20	20	20	20	13	11	11	7	11·7	5·8	16 55	27	7 55	3	11
13	16	18	21	20	16	13	7	7	11·9	6·3	18 35	27	11 45	1	12
18	18	19	18	17	14	12	13	13	11·7	6·1	17 20	28	9 12	3	13
15	16	15	16	16	17	14	9	12	12·4	6·3	13 15	27	10 17	3	14
16	15	16	18	18	16	13	9	11	12·3	6·0	19 5	23	11 12	3	15
11	12	11	11	8	4	5	4	7	9·3	4·3	0 45	20	10 45	3	16
15	16	15	16	15	15	14	12	11	11·9	6·1	8 10	16	1 25	4	17
18	18	19	19	18	18	14	12	14	13·1	6·4	17 12	27	11 15	4	18
18	19	18	17	15	14	13	11	12	12·8	6·3	16 20	26	2 55	4	19
22	26	24	27	27	21	15	12	12	14·2	7·3	18 45	**38**	10 42	3	20
26	24	25	22	22	20	14	12	9	15·2	7·9	15 14	36	10 8	4	21
19	18	14	14	13	14	11	8	7	11·0	5·6	15 30	26	12 28	4	22
11	14	12	11	10	10	6	5	5	8·8	4·5	16 26	16	22 45	3	23
13	13	12	12	11	10	9	7	10	9·8	4·9	16 46	18	0 5	3	24
14	15	15	16	13	12	11	13	10	10·8	5·2	16 30	22	10 28	1	25
9	10	7	5	5	5	5	5	6	**8·0**	**3·1**	12 48	14	11 40	4	26
17	17	16	17	14	13	11	10	11	11·8	5 9	16 18	24	10 50	**0**	27
12	13	13	**14**	16	16	14	11	11	12·1	6·0	20 58	25	13 12	5	28
26	26	26	25	23	23	22	16	14	16·5	9·3	17 8	37	10 10	4	29
24	27	26	24	22	21	21	17	13	18·3	**10·3**	17 42	37	11 4	4	30
26	**28**	23	23	22	22	16	16	14	**18·5**	10·0	16 48	38	9 25	4	31
16·4	**17·7**	17·6	17·7	16·8	15·3	12·7	10·7	10·1	12·7	6·4					

FEBRUARY.

20	21	22	22	19	16	13	11	11	15·0	7·8	18 12	31	10 18	6	1
13	16	18	21	20	19	15	11	12	16·5	9·0	19 5	31	13 58	6	2
15	15	16	18	17	17	15	11	11	12·5	6·3	18 28	24	2 8	5	3
19	22	21	22	21	14	12	8	10	13·3	6·7	16 55	31	9 18	3	4
16	19	21	20	17	15	10	9	9	11·5	5·7	17 8	26	11 20	5	5
12	10	11	7	6	6	5	8	8	8·8	3·1	15 28	19	21 46	4	6
13	12	12	11	11	7	7	6	4	11·4	5·6	14 43	21	23 34	4	7
12	14	12	11	10	7	6	5	5	9·1	4·7	16 18	17	1 32	3	8
17	18	15	14	14	12	9	5	7	10·2	5·4	16 16	22	10 45	4	9
26	**28**	26	23	**22**	18	13	12	13	14·8	8·1	16 50	**38**	8 54	4	10
21	22	24	23	22	18	12	12	10	15·9	8·6	16 48	31	9 30	6	11
13	11	11	12	8	5	4	6	9	9·0	4·1	15 38	18	3 6	4	12
21	25	24	19	17	14	11	9	12	13·0	6·9	16 15	32	11 0	4	13
26	27	23	21	20	20	16	15	12	**17·1**	**9·2**	15 26	36	8 38	5	14
14	16	15	15	15	11	10	9	6	10·5	5·3	16 34	23	11 18	4	15
14	14	14	16	18	17	11	8	9	9·8	4 7	19 20	25	10 45	1	16
18	19	16	16	15	13	10	9	9	11·7	6·0	15 28	27	11 22	3	17
18	19	22	21	20	17	13	11	9	13·3	7·1	17 50	31	10 45	3	18
22	22	20	21	18	16	11	11	12	14·7	8·0	15 52	31	10 45	5	19
15	15	13	13	13	10	8	8	7	11·2	6·1	14 10	20	21 36	6	20
13	12	11	12	8	6	5	4	3	8·4	5·8	18 32	18	9 48	1	21
16	16	19	17	18	9	8	7	9	8·7	6·6	17 10	27	5 0	**0**	22
16	16	17	18	16	14	6	7	12	10·6	7·3	16 8	25	8 10	0	23
17	17	16	16	16	16	12	13	9	11·7	7·9	16 8	26	11 6	0	24
15	22	20	21	17	6	7	10	13	10·3	6·5	18 16	30	8 8	1	25
10	8	7	5	5	3	2	2	3	**6·7**	3·7	13 45	17	10 46	1	26
11	10	13	11	7	5	5	5	5	7·3	5·1	17 55	20	10 48	3	27
14	14	13	14	14	10	11	11	7	8·7	5·8	13 16	22	10 32	1	28
16·3	**17·1**	16·9	16·4	15·1	12·2	9·5	8·7	8·8	11·5	6·3					Mean.

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

MARCH. (IN MILES PER HOUR.)

Date.	Hours.														
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13	13—14	14—15
1	7	8	9	9	9	8	8	7	5	10	11	10	11	13	14
2	5	9	11	12	13	12	8	6	5	4	4	9	12	15	15
3	3	3	3	6	7	5	6	6	7	5	3	4	9	12	14
4	5	7	12	13	6	5	4	5	3	4	4	6	9	11	13
5	4	7	9	6	7	7	7	4	6	5	3	5	7	9	10
6	6	7	7	7	6	6	6	3	5	5	3	1	7	7	9
7	5	5	9	10	11	3	4	6	6	4	2	5	9	10	11
8	5	4	4	3	3	3	4	5	6	5	3	3	7	8	9
9	6	6	5	5	5	8	8	6	5	5	4	6	7	8	9
10	8	7	7	12	12	11	10	9	8	9	11	10	8	10	10
11	7	5	5	6	10	11	13	13	11	6	3	3	7	9	10
12	3	3	3	3	5	5	5	7	6	8	5	10	12	13	14
13	5	6	6	5	4	5	5	6	7	6	4	10	13	14	16
14	6	10	11	12	9	8	8	8	7	6	4	9	12	14	16
15	14	16	15	12	9	8	7	8	7	8	7	7	10	9	9
16	7	4	3	3	3	8	13	12	9	4	10	10	10	11	11
17	4	4	3	3	7	10	8	7	6	5	5	6	8	8	10
18	6	5	4	6	5	2	4	6	6	5	4	7	9	10	11
19	8	5	3	2	2	3	2	6	7	5	5	6	9	11	13
20	6	5	5	4	6	6	3	1	2	6	4	4	7	9	10
21	14	11	14	11	9	10	10	10	9	8	4	7	14	17	17
22	5	4	4	3	7	7	5	3	7	3	4	9	12	14	17
23	14	15	11	7	7	6	6	3	4	5	8	9	10	13	14
24	12	8	8	8	8	8	6	6	4	4	3	8	10	16	18
25	12	8	5	5	8	7	5	5	5	8	9	11	15	15	17
26	6	6	7	7	8	9	6	4	6	7	9	11	15	17	18
27	10	6	6	8	7	9	6	7	7	8	10	11	11	11	12
28	5	4	4	4	6	9	9	7	7	6	9	11	12	14	17
29	7	6	5	5	6	5	4	5	5	5	9	11	13	13	15
30	8	6	6	7	6	7	10	9	8	6	6	8	11	13	15
31	9	7	7	7	7	7	7	10	9	7	13	11	11	15	17
Mean ..	7·2	6·7	6·8	6·8	7·0	7·0	6·7	6·5	6·3	5·9	5·9	7·7	10·2	11·9	13·3

APRIL.

1	11	7	8	8	9	9	7	8	7	7	11	13	15	16	17
2	14	11	10	9	9	9	8	8	6	6	6	10	12	15	18
3	8	5	5	5	12	12	9	6	4	5	8	9	12	13	14
4	5	5	5	5	5	6	11	10	9	7	8	9	13	14	14
5	7	7	6	6	6	11	12	11	10	7	7	8	10	12	12
6	10	8	5	4	3	5	5	4	4	4	7	12	13	15	15
7	6	9	9	10	10	8	7	8	6	6	5	11	13	16	17
8	8	10	12	12	12	11	8	7	8	6	4	10	12	15	18
9	13	15	15	11	9	8	5	5	5	3	8	9	11	15	16
10	7	7	7	7	7	6	6	7	4	8	9	8	8	8	9
11	8	3	3	5	5	5	5	5	5	5	10	11	12	13	15
12	3	6	6	6	8	8	8	7	11	10	11	10	13	16	17
13	8	9	7	8	7	10	7	5	7	8	9	14	13	14	15
14	9	7	7	7	7	7	7	8	8	11	12	12	14	15	18
15	9	9	11	11	9	7	7	7	8	7	11	13	16	17	19
16	9	8	7	9	8	10	11	13	10	7	8	11	14	15	15
17	14	12	12	10	7	6	6	5	6	6	7	10	11	12	13
18	7	6	6	5	6	10	10	7	6	6	7	9	11	12	12
19	9	9	8	7	6	6	6	5	4	4	10	13	15	16	18
20	7	7	6	6	8	9	11	13	12	6	9	12	15	17	18
21	16	14	12	7	6	9	10	12	12	12	8	11	14	15	14
22	13	17	11	9	9	6	8	11	11	11	8	10	13	16	15
23	7	8	13	11	10	9	4	8	6	5	4	9	13	16	17
24	14	9	7	7	7	6	6	5	5	6	6	6	9	14	16
25	11	12	10	9	7	6	6	7	9	8	6	9	12	14	16
26	8	7	8	7	7	6	6	7	7	6	8	8	10	12	13
27	7	7	7	7	7	6	6	9	7	6	8	9	10	11	12
28	8	9	7	9	10	9	10	9	8	9	11	13	14	15	17
29	9	9	9	9	8	9	10	10	9	10	10	11	12	13	14
30	14	10	10	7	6	11	10	10	10	11	11	11	13	15	14
Mean ..	9·3	8·8	8·3	7·8	7·7	8·0	7·7	7·9	7·5	7·1	8·2	10·4	12·4	14·2	15·3

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

MARCH. (IN MILES PER HOUR.)

Hours.									Mean.	Mean by R. Beckley's Anemograph.	Maximum.		Minimum.		Date.
15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24			Time.	Mag.	Time.	Mag.	
											H. M.		H. M.		
14	13	15	15	11	8	6	6	4	9·6	6·3	17 37	21	9 4	4	1
15	14	13	10	8	5	4	4	3	9·0	6·0	15 35	19	10 38	1	2
14	12	14	13	7	6	5	4	4	7·2	4·9	18 6	25	10 35	1	3
12	12	12	7	6	5	3	3	3	7·1	4.3	17 3	21	10 55	1	4
12	12	11	7	6	4	3	3	4	6·6	3·6	16 42	16	10 20	1	5
11	10	8	8	4	3	7	8	6	6·3	4·0	15 22	13	10 45	1	6
12	11	7	5	4	4	6	5	4	6·6	4·3	4 5	20	10 48	1	7
11	12	11	8	4	4	5	8	8	**6·0**	3·9	16 40	14	10 38	**0**	8
10	9	8	9	10	13	14	16	13	8·1	4·9	22 20	20	10 10	1	9
10	9	9	7	7	7	9	10	10	9·2	5·9	3 25	16	9 16	5	10
10	8	8	7	5	4	4	3	3	7·1	4·9	7 4	15	10 55	1	11
15	16	16	14	11	10	8	7	5	8·5	5·7	17 43	23	10 25	0	12
15	16	17	15	14	8	7	5	5	8·9	6·1	17 15	26	10 30	0	13
15	17	17	15	11	6	6	8	10	10·2	6·5	17 10	25	10 30	0	14
9	9	7	5	3	2	8	12	11	8·8	5·6	3 5	21	20 0	2	15
10	9	7	5	4	6	7	5	5	7·3	4·5	12 50	17	9 30	2	16
11	11	10	8	8	9	9	7	7	7·3	**4·5**	16 30	16	10 30	2	17
10	9	8	8	5	3	3	5	5	6·1	**3·5**	14 30	15	10 50	1	18
13	16	12	11	8	7	3	2	4	6·8	5·0	16 45	32	10 28	0	19
11	13	14	11	7	4	4	6	7	6·5	4·5	17 15	17	7 30	1	20
16	13	12	8	4	4	5	6	5	9·9	6·7	0 4	29	10 40	1	21
20	22	20	17	14	10	5	7	12	9·6	6·6	15 30	29	10 10	1	22
16	15	17	17	17	14	12	11	10	10·9	7·5	19 50	26	7 30	3	23
17	17	14	12	13	11	9	12	12	10·2	6·9	16 40	24	8 0	2	24
20	21	19	18	16	13	14	12	10	**11·6**	**7·7**	16 25	29	8 55	4	25
20	21	20	19	16	12	9	9	12	11·4	7·6	16 15	31	7 45	4	26
12	11	10	8	9	8	8	6	6	8·6	4·6	14 45	17	6 45	4	27
17	18	17	17	17	14	11	6	6	10·3	6·7	19 20	24	2 30	4	28
15	16	17	14	10	8	6	8	9	9·0	5·5	17 15	25	8 25	3	29
15	14	16	13	12	13	13	17	17	10·7	6·4	17 25	23	10 45	5	30
16	17	16	13	12	13	10	10	13	11·0	6·9	16 32	25	9 20	5	31
13·7	13·6	13·0	11·1	9·1	7·7	7·2	7·5	7·5	8·6	5·5					Mean.

APRIL.

17	17	16	15	16	10	9	13	16	11·7	7·4	15 0	24	9 20	5	1
16	13	10	7	11	13	14	11	10	10·7	6·7	14 25	21	10 10	5	2
15	14	11	12	10	8	6	5	5	8·9	5·5	15 45	18	10 35	3	3
13	12	11	10	9	9	9	7	7	8·9	5·0	13 10	19	4 25	5	4
14	14	14	12	13	12	10	11	10	10·1	6·4	16 53	18	10 40	3	5
16	14	13	9	7	8	7	6	6	8·3	5·0	15 20	20	8 5	2	6
16	17	15	10	9	6	6	8	10	9·9	6·2	13 40	25	10 22	2	7
17	17	14	11	7	5	5	5	10	10·2	6·3	16 45	21	10 40	1	8
16	9	5	5	10	13	11	9	9	9·8	6·2	14 8	21	9 14	1	9
11	11	11	18	10	10	9	8	12	8·7	4·5	18 32	**35**	8 10	4	10
16	16	14	11	9	6	6	4	5	**8·2**	5·2	15 47	21	**8** 10	2	11
19	18	17	15	17	17	12	9	7	11·3	7·3	14 32	28	0 0	3	12
16	14	14	14	12	10	9	10	10	10·4	6·7	15 20	23	8 15	3	13
19	16	16	16	12	7	6	5	9	10·6	6·6	15 25	24	22 20	4	14
20	19	18	15	9	6	6	7	9	11·3	7·0	15 15	25	22 7	6	15
17	17	14	15	7	7	11	15	15	11·4	7·4	16 10	23	19 35	6	16
14	14	13	9	6	6	6	8	6	9·1	**4·4**	15 45	19	7 15	5	17
17	18	17	16	14	10	11	9	8	10·0	6·2	17 2	23	10 10	5	18
19	18	18	19	18	17	16	14	14	12·0	7·8	18 45	27	8 10	5	19
19	21	20	18	16	13	9	12	16	**12·5**	**8·4**	15 10	28	10 0	5	20
14	15	10	6	6	7	8	7	7	10·5	6·3	0 15	20	4 35	5	21
14	14	14	12	8	5	14	13	6	11·2	6·5	21 55	29	6 25	5	22
16	16	17	16	14	11	10	8	**25**	11·4	7·7	23 20	34	10 50	1	23
17	20	18	14	12	11	10	10	11	10·3	6·5	16 52	26	10 48	2	24
18	18	17	14	12	11	11	10	9	10·9	7·0	15 20	23	10 47	3	25
15	15	15	14	12	12	9	9	7	9·5	5·8	15 30	21	10 55	6	26
14	15	14	13	12	11	10	9	9	9·4	5·6	16 3	19	9 45	2	27
18	18	17	16	12	12	14	12	10	12·0	7·9	16 30	25	2 25	7	28
16	16	15	13	12	10	10	11	9	11·0	7·5	16 12	23	10 47	6	29
16	16	15	14	14	12	12	12	11	12·0	8·0	16 51	21	3 40	6	30
16·2	15·7	14·4	13·0	11·2	9·8	9·5	9·2	9·9	10·4	6·5					Mean.

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

MAY. (IN MILES PER HOUR.)

Date.	Hours.														
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13	13—14	14—15
1	11	10	8	6	5	5	5	5	6	5	7	11	11	14	18
2	6	7	10	13	13	14	17	17	17	15	12	12	12	13	13
3	6	5	7	9	7	6	6	5	5	5	7	10	12	15	16
4	9	9	12	15	17	16	16	15	15	15	16	15	15	16	16
5	18	18	19	16	15	15	15	12	13	13	13	13	15	15	14
6	12	12	13	14	14	16	17	15	15	15	13	11	12	13	13
7	9	9	8	8	8	9	9	10	11	12	12	11	12	13	13
8	7	7	7	7	7	8	8	9	10	11	11	9	10	10	11
9	7	7	7	7	8	8	8	7	6	10	11	11	11	12	12
10	8	8	7	7	7	6	7	10	8	9	11	12	15	15	15
11	7	6	6	6	5	5	4	4	4	7	9	10	11	12	14
12	6	5	6	5	6	5	4	5	8	8	8	9	9	9	10
13	6	7	7	6	7	5	4	5	4	5	7	7	8	9	9
14	9	8	7	8	9	10	9	10	9	9	10	11	9	10	12
15	9	9	11	9	7	7	7	7	6	7	8	9	10	11	14
16	13	13	11	10	9	8	8	10	9	8	10	11	15	15	17
17	9	9	9	8	11	8	8	8	9	10	12	14	16	16	19
18	13	14	13	11	10	9	6	7	7	6	8	10	12	15	17
19	15	13	10	8	8	8	8	8	12	12	11	11	15	18	18
20	17	18	14	13	8	8	6	5	8	8	11	11	14	18	19
21	7	6	6	7	6	6	7	6	8	8	10	11	12	14	13
22	7	7	7	7	7	6	6	7	9	8	7	9	10	10	10
23	7	7	7	7	5	5	5	5	6	6	8	10	10	11	12
24	10	11	11	11	11	10	9	10	11	12	13	13	13	15	17
25	10	10	11	12	12	10	7	5	7	12	14	14	15	15	16
26	13	13	13	13	13	14	12	10	10	11	11	11	12	13	15
27	12	12	12	11	11	11	10	10	10	11	13	14	15	15	16
28	7	8	7	9	8	6	5	5	10	10	11	12	12	12	13
29	11	11	9	8	9	11	9	9	10	11	11	13	14	14	15
30	13	12	11	12	13	12	12	12	12	12	14	12	12	11	11
31	10	10	9	9	11	10	10	11	9	12	11	11	11	11	11
Mean ..	9·8	9·7	9·5	9·4	9·3	8·9	8·5	8·5	9·2	9·8	10·6	11·2	12·3	13·2	14·2

JUNE.

1	12	12	14	18	16	15	15	15	12	15	14	14	14	15	13
2	13	12	10	11	8	10	6	6	7	7	8	10	8	9	9
3	12	7	14	14	9	11	8	12	14	9	9	15	15	15	13
4	15	18	19	18	16	15	20	18	21	21	20	17	17	13	14
5	15	13	14	15	15	12	10	10	16	18	19	16	14	13	16
6	15	17	17	16	10	8	11	17	21	17	22	17	18	17	15
7	14	15	18	13	12	12	17	18	12	22	13	8	8	5	12
8	9	9	12	12	15	12	14	17	19	16	13	15	16	16	15
9	23	20	20	20	19	19	18	16	17	17	20	17	17	16	17
10	13	14	15	13	14	14	14	14	12	14	12	12	13	16	15
11	14	14	13	13	12	12	11	12	11	11	12	11	10	10	9
12	12	11	11	11	11	11	10	10	11	11	12	11	14	14	13
13	13	15	14	14	15	16	18	18	14	16	17	21	19	17	16
14	14	12	12	10	12	14	11	13	14	17	20	19	17	18	20
15	15	17	16	15	13	11	11	10	10	13	14	16	16	16	17
16	5	9	10	11	12	10	9	9	10	7	10	9	10	9	10
17	7	14	13	10	9	11	15	17	14	12	14	12	5	9	14
18	17	15	17	16	19	18	16	18	23	29	24	17	16	16	18
19	18	18	18	22	19	16	13	16	17	21	22	23	17	19	17
20	14	12	11	12	14	13	11	5	7	16	16	20	18	16	14
21	7	8	7	8	7	8	8	9	8	10	12	29	24	14	8
22	9	6	6	10	10	14	21	16	6	5	4	4	7	10	6
23	12	11	13	15	14	14	13	14	13	11	10	11	10	11	10
24	11	12	11	11	11	11	12	6	8	9	5	4	9	9	10
25	9	10	12	15	14	14	16	17	18	15	17	24	14	12	13
26	10	13	16	18	17	16	15	12	13	16	11	12	14	13	16
27	17	16	16	15	14	12	11	11	12	15	14	19	23	20	16
28	15	17	18	15	14	15	17	19	18	17	15	15	17	15	16
29	18	15	16	14	14	15	20	19	22	22	18	16	19	17	15
30	18	20	20	21	23	19	19	19	17	19	24	25	18	21	24
Mean ...	13·2	13·4	14·1	14·2	13·6	13·3	13·7	13·8	13·9	14·9	14·7	15·3	14·6	14·0	14·0

(Averages for periods of sixty minutes from full hour to full hour of local mean time).

MAY. (IN MILES PER HOUR.)

Hours.									Mean.	Mean by R. Beckley's anemograph.	Maximum.		Minimum.		Date.
15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24			Time.	Mag.	Time.	Mag.	
											H. M.		H. M.		
19	18	15	11	10	12	10	8	7	9·9	6·2	15 50	24	9 20	4	1
13	12	11	8	7	7	8	7	6	11·3	7·0	8 10	23	20 10	3	2
17	14	11	8	7	10	9	9	10	9·0	5·4	15 35	25	10 40	2	3
14	14	13	12	12	13	17	19	19	**14·6**	9·0	22 35	26	12 52	5	4
16	14	13	13	16	14	13	11	10	14·3	9·0	12 38	24	7 34	5	5
12	12	11	11	10	9	9	9	10	12·4	7·2	6 53	22	11 10	5	6
12	12	11	11	11	11	9	7	7	10·2	5·7	13 28	19	6 52	6	7
11	12	11	10	9	7	7	6	6	8·8	5·1	9 25	16	0 5	6	8
12	13	13	11	10	7	7	7	7	9·1	5·4	14 15	17	8 20	3	9
14	16	15	13	12	9	9	7	6	10·3	7·0	15 50	22	20 15	6	10
13	12	12	11	12	11	9	8	7	8·5	5·3	14 50	18	6 10	4	11
11	11	11	10	10	9	8	8	7	7·8	5·1	15 55	16	7 35	4	12
11	11	10	10	9	8	9	9	9	**7·6**	4·5	15 55	17	9 0	3	13
11	11	10	9	8	8	6	8	9	9·2	5·3	13 57	17	9 35	4	14
14	15	15	14	12	10	11	12	12	10·3	7·3	15 8	20	8 5	5	15
18	19	18	16	12	13	10	10	9	12·2	9·0	16 5	25	8 45	6	16
18	18	17	17	14	10	13	14	14	12·5	8·5	14 12	**27**	6 50	6	17
18	19	19	12	11	11	13	13	13	12·0	8·3	17 15	25	10 17	5	18
18	17	14	14	13	14	17	17	15	13·1	**9·2**	16 20	26	8 5	3	19
21	20	19	20	10	8	7	7	6	12·3	8·5	13 58	26	8 3	3	20
14	14	13	11	8	6	6	6	7	8·8	5·3	17 12	20	6 12	4	21
10	11	10	9	8	7	7	7	7	8·0	**3·5**	16 12	15	10 46	3	22
12	12	12	11	10	11	11	10	10	8·7	4·7	17 10	16	9 5	4	23
17	17	14	12	12	11	11	10	12	12·2	8·0	15 56	23	6 10	6	24
16	14	13	12	11	12	12	12	12	11·8	7·8	14 20	24	8 0	4	25
15	15	14	13	11	11	12	10	11	12·3	8·5	16 12	19	8 55	6	26
16	14	12	13	11	11	9	9	8	11·9	8·4	11 15	20	7 40	5	27
14	14	13	11	11	10	11	10	9	9·9	6·3	16 12	19	7 10	4	28
16	15	14	14	11	9	9	11	13	11·5	8·2	14 15	23	8 28	6	29
11	12	11	12	10	8	7	9	9	11·3	7·6	7 10	17	13 45	6	30
11	11	10	9	11	12	12	12	12	10·7	6·6	23 18	17	3 10	6	31
14·4	14·2	13·1	11·9	10·6	10·0	9·9	9·7	9·6	10·7	6·9					Mean.

JUNE.

12	13	14	11	12	12	10	11	11	13·3	7·9	11 5	25	8 18	5	1
10	10	10	9	7	10	8	8	15	**9·2**	**5·2**	23 45	29	7 32	4	2
16	18	17	19	20	22	19	16	14	14·1	9·8	19 13	28	6 30	5	3
16	15	15	13	17	18	14	13	15	16·6	12·2	20 1	27	13 30	5	4
12	7	11	6	10	10	9	11	12	12·7	9·0	14 13	30	18 25	4	5
15	10	9	14	16	16	8	14	16	14·8	10·7	13 35	34	17 27	5	6
8	15	14	13	9	14	14	13	11	12·9	8·3	18 0	40	15 15	2	7
9	18	18	12	16	15	19	21	23	15·0	8·6	21 15	50	1 0	5	8
16	17	17	17	16	14	7	13	15	17·0	10·2	10 31	28	21 35	7	9
15	14	14	13	13	13	12	13	14	13·6	8·0	4 10	24	9 45	6	10
10	9	11	9	9	9	10	11	10	11·0	6·3	22 40	18	11 35	6	11
15	15	14	13	14	14	14	12	11	12·3	7·4	13 15	36	7 20	5	12
19	16	14	17	15	15	14	15	15	16·0	10·5	16 52	47	7 50	6	13
19	19	18	18	15	13	18	13	13	15·4	12·5	7 15	37	7 30	6	14
18	15	11	9	9	15	12	7	12	13·3	9·9	14 12	25	22 12	2	15
10	11	10	10	9	10	9	12	11	9·7	5·7	18 50	16	8 20	4	16
14	19	18	10	8	13	16	15	10	12·5	8·7	17 45	25	13 10	5	17
19	19	17	18	20	20	20	20	18	18·7	14·6	9 35	33	11 30	6	18
12	17	14	19	17	15	15	14	16	17·3	13·4	11 40	28	15 48	6	19
12	10	9	11	7	7	9	9	10	11·8	8·1	9 40	24	8 10	4	20
9	10	12	14	11	6	5	7	9	10·4	6·4	11 35	34	16 20	4	21
6	9	12	11	12	13	14	12	13	9·8	6·6	6 20	34	10 40	1	22
8	10	9	12	12	13	11	9	10	15·5	7·2	4 35	22	9 5	6	23
10	12	16	15	10	7	8	9	9	9·8	6·2	17 45	26	10 35	1	24
21	18	15	12	12	10	10	9	10	14·0	10.1	11 55	33	13 30	5	25
20	20	19	21	19	18	19	19	22	16·2	11·7	6 5	32	5 20	5	26
18	18	22	23	22	17	16	16	16	16·6	13·0	12 40	28	8 5	8	27
18	18	18	17	21	21	21	16	16	17·0	13·4	21 12	25	13 50	9	28
12	13	15	16	18	19	17	21	24	17·3	13·8	23 15	33	16 45	6	29
22	21	26	27	29	27	26	26	29	**22·5**	**17·7**	18 12	45	17 0	8	30
14·0	14·5	14·6	14·3	14·2	14·2	13·5	13·5	14·3	14·1	9·8					Mean.

JULY. (Averages for periods of sixty minutes from full hour to full hour of local mean time.)
(IN MILES PER HOUR.)

Date.	Hours.														
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13	13—14	14—15
1	28	24	21	24	21	23	19	20	20	22	22	17	24	23	25
2	24	24	21	19	21	15	12	16	15	14	16	15	16	11	14
3	10	10	18	15	11	17	16	12	15	12	11	11	12	12	15
4	15	17	14	21	18	17	17	19	17	17	15	18	18	16	20
5	14	13	13	18	18	20	18	15	13	15	12	16	16	16	16
6	15	13	17	18	13	13	12	15	12	13	14	15	14	14	15
7	15	11	14	13	15	15	18	19	18	19	19	19	17	16	17
8	14	13	12	12	12	12	12	10	9	9	10	10	11	10	10
9	12	11	11	12	11	10	16	8	8	8	8	11	11	12	9
10	14	15	17	15	15	14	14	13	11	14	14	14	17	12	13
11	13	15	13	17	13	11	11	12	16	13	17	15	16	18	16
12	22	22	18	25	27	23	24	25	26	21	25	20	20	23	22
13	26	26	26	26	25	25	25	24	25	23	27	25	25	25	26
14	25	25	25	25	24	24	24	24	24	22	19	20	21	20	20
15	16	18	18	19	19	27	13	23	14	14	16	16	17	15	16
16	16	16	16	15	18	16	17	18	17	14	14	15	16	19	16
17	17	17	16	17	16	16	16	17	14	18	14	15	14	14	14
18	16	16	16	16	16	14	15	17	16	15	16	18	16	15	15
19	16	16	18	16	16	15	14	15	18	21	19	15	15	16	17
20	17	15	17	15	17	16	13	16	18	17	18	19	16	16	16
21	17	16	17	15	18	16	17	16	18	17	16	17	16	15	14
22	19	17	17	16	17	16	16	16	16	16	17	16	16	16	14
23	18	18	20	16	18	18	19	18	19	18	17	18	19	21	17
24	22	19	20	19	18	20	20	20	21	20	19	20	23	21	21
25	18	17	16	18	18	19	19	16	17	19	20	17	18	19	18
26	16	18	17	15	17	16	15	14	18	14	21	17	18	18	17
27	17	17	17	16	16	15	14	13	11	16	16	14	16	16	17
28	14	15	15	17	14	14	14	14	14	13	13	11	12	17	14
29	11	11	11	13	13	14	14	13	9	9	12	12	17	15	21
30	12	13	13	14	13	14	11	11	12	11	12	9	11	10	8
31	13	11	15	9	14	13	13	16	13	12	11	13	13	15	16
Mean . .	16·8	16·4	16·7	17·0	16·8	16·7	16·1	16·3	15·9	15·7	16·1	15·7	16·5	16·3	16·4

AUGUST.

1	15	14	15	15	14	12	16	16	18	16	20	14	14	15	14
2	11	12	9	11	15	14	16	15	16	16	14	15	15	15	15
3	13	12	13	13	14	17	18	19	18	17	17	19	18	17	17
4	13	13	15	15	17	19	19	18	17	16	14	13	13	15	13
5	16	19	18	16	16	14	13	14	13	12	11	14	12	14	14
6	13	15	14	15	19	19	19	17	16	15	17	17	17	17	14
7	17	17	17	17	16	15	15	13	16	15	20	17	17	19	19
8	16	15	15	16	18	21	19	14	14	16	19	22	18	19	16
9	15	15	13	14	15	17	16	14	14	14	15	13	14	14	13
10	16	14	16	14	13	18	18	15	15	16	18	20	8	9	13
11	16	17	16	16	18	16	16	14	15	16	16	17	18	15	16
12	13	16	15	16	15	13	15	16	15	16	20	19	18	18	19
13	13	16	16	17	18	17	16	16	15	15	13	15	16	18	17
14	13	14	14	14	15	15	16	15	15	15	14	16	15	14	13
15	12	13	14	14	13	12	13	16	16	17	11	7	12	12	12
16	9	12	12	11	9	11	13	12	11	14	15	18	18	15	14
17	11	9	10	14	15	14	9	9	9	8	11	11	15	16	19
18	12	16	16	7	14	16	20	10	6	8	19	18	21	25	26
19	13	15	16	17	16	18	16	18	18	21	21	22	20	23	21
20	17	17	16	17	16	18	18	18	17	17	20	21	19	20	18
21	14	14	16	17	13	21	20	18	17	17	25	21	22	21	25
22	10	14	21	13	16	17	23	24	18	15	18	14	20	20	20
23	15	16	16	15	15	16	17	16	22	19	19	18	15	16	17
24	15	17	19	21	22	23	27	22	19	19	19	21	21	22	21
25	17	17	18	14	18	20	25	18	20	17	22	23	21	20	21
26	16	15	16	16	15	15	14	16	18	17	16	14	14	15	16
27	16	16	16	13	15	16	16	15	14	15	14	14	14	13	17
28	10	10	11	10	13	12	10	9	7	7	9	8	10	9	11
29	8	6	6	7	7	7	6	7	7	9	10	11	11	11	13
30	12	13	13	11	11	11	11	13	11	11	12	12	12	12	13
31	14	17	16	13	17	17	15	16	18	20	17	17	7	7	13
Mean . .	13·6	14·4	14·8	14·2	15·1	15·8	16·3	15·3	15·0	15·0	16·3	16·2	15·6	16·0	16·5

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

JULY. (IN MILES PER HOUR.)

Hours.									Mean.	Mean by R. Beckley's anemo-graph.	Maximum.		Minimum.		Date.
15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24			Time.	Mag.	Time.	Mag.	
											H. M.		H. M.		
26	29	**30**	28	29	29	29	28	24	24·4	**19·5**	16 10	**46**	11 30	8	1
16	13	16	12	12	17	13	13	8	15·5	10·1	20 35	28	23 10	5	2
14	11	11	12	12	14	15	16	16	13·3	8·3	2 35	31	11 15	6	3
17	15	16	16	15	14	19	15	14	16·7	10·1	11 35	38	1 40	6	4
17	16	15	13	12	11	12	12	15	14·8	8·2	21 30	34	**8** 5	6	5
15	15	13	11	12	14	14	17	16	14·4	7·4	10 50	34	8 8	7	6
16	15	15	16	15	15	13	14	14	15·7	10·0	12 48	30	3 28	6	7
12	12	13	13	9	10	10	10	10	11·0	6·2	0 12	20	9 15	6	8
10	12	10	10	10	12	9	13	11	**10·6**	**5·5**	20 10	32	9 0	6	9
10	15	12	13	13	12	11	13	13	13·5	7·8	12 40	34	15 55	5	10
16	13	15	19	17	19	19	20	20	15·6	9·0	10 30	36	17 8	6	11
23	22	22	19	22	22	22	22	24	22·5	12·8	21 8	43	11 12	8	12
24	25	24	24	23	23	24	25	25	**24·8**	13·7	8 25	45	21 12	10	13
20	17	16	16	15	15	15	17	16	20·4	11·5	1 15	42	16 15	7	14
15	19	16	16	17	17	17	14	13	16·9	9·6	5 40	45	6 50	7	15
17	17	16	17	16	17	17	17	17	16·4	9·3	15 40	34	10 37	**4**	16
16	18	16	16	15	18	16	16	17	16·0	9·5	1 40	29	13 25	6	17
17	14	16	16	16	15	17	15	15	15·7	9·4	7 45	36	13 50	7	18
20	20	18	18	17	17	14	17	17	16·9	9·4	9 20	32	6 20	7	19
17	17	16	16	15	15	16	14	16	16·2	9·1	11 35	35	15 5	7	20
15	15	15	13	17	17	15	17	19	16·2	9·5	3 5	32	19 15	7	21
16	15	17	16	17	17	18	16	20	16·5	9·5	23 55	32	14 30	7	22
19	16	17	21	19	17	17	18	16	18·1	10·6	2 20	35	4 45	7	23
21	20	17	17	16	17	19	19	18	19·5	11.5	12 45	42	17 15	8	24
17	17	15	15	16	17	18	16	17	17·4	9·7	5 35	35	18 20	6	25
18	17	16	16	14	16	15	16	17	16·5	9·5	13 28	40	1 10	6	26
16	17	16	14	13	14	14	13	15	15·1	7·9	7 5	28	8 10	4	27
12	10	9	10	12	10	11	10	11	12·7	7.0	3 32	34	11 15	6	28
15	15	10	9	12	10	9	12	13	12·5	6·9	12 12	28	9 25	5	29
10	9	10	8	11	12	10	12	13	11·2	5·8	17 45	25	9 45	4	30
18	15	14	10	11	7	11	12	15	12·9	7.1	23 25	34	20 50	5	31
16·6	16·2	15·5	**15·2**	15·2	15·5	15·5	15·8	16·0	16·1	9·4					Mean.

AUGUST.

15	13	11	9	12	9	12	13	12	13·9	8·0	8 40	33	17 55	5	1
15	15	15	15	15	15	15	13	11	14·1	8·5	16 30	26	22 6	6	2
17	17	13	14	14	13	15	13	15	15·5	8·9	7 44	27	2 2	6	3
11	12	15	15	14	13	12	16	14	14·7	8·5	8 15	31	11 55	6	4
17	13	13	14	14	15	16	15	14	14·5	8·1	15 35	32	12 40	5	5
16	14	15	14	13	15	14	15	15	15·6	8·7	6 45	31	19 33	6	6
19	19	18	15	16	13	16	15	17	16·6	10·8	14 25	32	7 35	7	7
19	18	14	15	14	13	13	14	14	16·3	10·4	5 35	32	9 12	6	8
12	12	12	14	12	12	14	13	13	13·7	7.6	21 15	26	13 55	6	9
12	14	12	12	15	16	15	15	16	14·6	8·7	11 55	39	12 30	**4**	10
18	17	14	14	12	12	12	12	10	15·1	10·9	11 40	24	23 12	7	11
13	9	9	7	7	7	9	11	12	13·7	9·3	13 25	26	16 30	5	12
14	15	14	14	11	8	8	11	11	14·3	9·9	13 25	26	20 50	5	13
9	10	18	15	14	11	11	9	10	13·5	7·9	17 20	25	22 45	6	14
14	13	12	13	12	11	13	15	12	12·9	7·7	7 50	30	11 45	5	15
12	10	9	7	7	8	9	10	7	11·4	7·3	11 3	26	19 35	5	16
12	12	16	10	9	9	9	11	12	11·7	7·4	17 28	30	8 10	5	17
16	17	17	17	15	16	15	16	17	15·8	10·7	4 10	32	8 40	5	18
18	17	18	19	16	15	17	19	18	18·0	**12·9**	9 32	32	6 45	8	19
16	16	15	17	15	16	13	13	17	17·0	12·1	9 35	32	21 48	7	20
20	14	16	15	15	12	14	14	16	17·4	10·2	14 50	39	4 50	7	21
20	20	20	19	18	16	15	15	18	17·7	12·1	17 5	38	0 2	7	22
14	14	16	16	15	15	14	13	16	16·0	10·0	14 45	38	15 48	8	23
19	18	16	14	16	17	19	16	19	**19·3**	11·6	7 28	**40**	17 45	8	24
19	18	17	17	18	17	16	16	13	18·4	11·6	6 35	40	23 15	8	25
14	16	15	14	14	14	14	14	14	15·1	8·4	8 25	30	12 40	7	26
17	17	12	12	13	13	10	10	11	14·1	8·0	14 15	30	17 25	7	27
10	10	11	11	9	7	7	6	7	9·3	**5·7**	2 20	24	8 20	5	28
11	13	10	10	10	10	11	9	11	**9·2**	5·7	23 3	21	7 30	5	29
15	12	9	9	9	7	7	11	14	11·3	7·6	15 30	27	21 25	6	30
13	10	12	16	14	12	12	14	14	14·2	10·0	17 48	32	14 15	4	31
15·1	14·4	14·0	13·6	13·2	12·5	12·8	13·1	13·5	14·7	9·2					Mean.

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

SEPTEMBER. (IN MILES PER HOUR.)

Date.	Hours.														
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13	13—14	14—15
1	19	16	17	17	14	14	15	16	14	15	16	18	16	17	23
2	11	11	11	11	10	12	12	12	12	13	14	14	14	13	13
3	5	6	5	7	5	5	5	7	8	7	6	5	6	9	10
4	5	5	5	5	5	5	6	6	6	5	6	7	7	8	8
5	7	9	9	6	7	8	9	10	5	7	9	10	12	9	11
6	6	7	9	7	7	10	12	10	9	9	6	8	4	4	8
7	6	6	9	9	9	9	8	7	6	8	3	4	5	8	10
8	11	9	9	10	10	9	9	13	13	13	13	13	13	12	11
9	7	9	10	10	10	9	10	9	9	9	11	11	14	13	10
10	8	12	14	12	11	12	14	11	9	5	5	6	11	10	10
11	7	10	9	9	8	8	8	9	8	6	6	5	7	7	10
12	6	5	5	7	5	7	7	8	7	6	5	7	8	10	12
13	7	7	5	6	9	8	9	7	6	7	6	6	8	9	10
14	9	8	8	8	9	8	7	7	9	10	12	13	13	14	15
15	13	12	11	11	11	10	8	9	12	12	14	14	15	16	16
16	11	13	13	8	6	4	3	2	4	7	7	9	12	15	18
17	4	4	3	7	10	8	6	10	5	5	4	3	6	12	15
18	14	13	12	10	9	7	5	5	3	4	4	6	7	8	12
19	7	8	8	7	7	6	5	7	6	8	10	8	7	8	11
20	9	6	6	5	6	5	3	3	3	3	3	5	8	9	9
21	3	6	5	4	6	6	9	10	9	7	7	6	8	9	10
22	7	6	6	6	6	5	4	5	5	5	9	10	11	13	13
23	10	11	10	7	6	5	5	6	6	9	14	14	15	16	16
24	14	13	11	10	6	5	5	7	7	6	11	11	12	15	16
25	9	9	8	6	5	5	5	5	6	7	5	4	6	9	11
26	23	22	20	18	18	22	21	19	16	12	9	6	5	8	10
27	11	12	12	8	5	5	2	5	6	3	5	5	6	8	11
28	10	5	5	7	8	11	9	9	8	9	7	6	5	6	9
29	11	12	11	12	16	21	20	17	18	23	23	25	24	22	22
30	7	10	9	9	9	12	13	11	11	10	13	13	12	10	10
Mean . .	9·2	9·4	9·2	8·6	8·4	8·7	8·5	8·7	8·2	8·3	8·8	9·1	9·9	10 9	12·3

OCTOBER.

1	5	5	6	6	5	5	5	4	7	5	4	5	7	8	9
2	9	12	14	9	7	5	6	6	6	7	8	7	10	12	13
3	6	6	8	5	7	6	8	10	11	7	6	5	6	9	8
4	8	5	5	3	6	9	9	6	6	5	4	7	8	9	10
5	5	2	2	7	10	10	6	5	3	4	7	7	7	9	10
6	5	5	6	6	5	6	8	7	9	11	12	12	10	10	10
7	15	13	10	9	10	10	11	11	10	6	6	7	7	8	8
8	6	5	7	5	5	6	5	6	8	8	5	6	11	12	13
9	7	7	7	6	7	7	7	6	6	6	12	11	12	13	13
10	7	7	7	7	10	5	16	9	9	9	11	15	12	9	8
11	8	8	11	7	9	8	8	7	4	6	7	8	8	9	10
12	9	8	6	5	5	7	5	5	4	4	6	8	12	12	13
13	5	5	4	5	5	6	6	6	7	8	12	14	15	15	14
14	8	8	7	4	4	5	6	6	7	4	3	8	10	12	15
15	7	8	7	6	6	6	5	5	6	5	3	4	7	10	11
16	8	7	6	4	4	4	5	4	3	6	9	12	13	13	13
17	5	5	5	5	5	6	5	5	5	3	3	4	7	9	10
18	4	3	4	4	10	9	8	9	6	5	3	7	8	9	10
19	4	4	6	4	3	7	6	7	5	3	3	5	7	8	10
20	8	9	7	5	6	5	5	5	6	6	4	3	8	12	13
21	7	9	6	5	6	9	9	8	6	8	6	5	9	10	12
22	5	6	8	9	9	8	6	6	6	8	6	5	6	10	12
23	5	5	5	5	9	7	7	9	7	9	7	5	8	9	10
24	7	7	5	5	5	5	9	10	9	10	7	5	5	6	11
25	6	6	8	9	8	9	9	8	9	10	8	7	8	9	12
26	7	8	9	11	12	11	12	11	12	11	7	5	5	9	11
27	5	6	7	9	10	7	9	6	9	9	8	5	4	6	7
28	7	8	7	10	10	8	6	9	10	11	10	6	5	7	10
29	5	8	8	8	10	11	10	11	11	9	5	6	5	6	11
30	5	6	6	6	7	5	7	10	9	8	5	5	4	6	8
31	6	4	6	7	10	11	11	11	10	8	1	3	5	8	8
Mean . .	6·6	6·6	6·8	6·3	7·3	7·2	7·6	7·4	7·3	7·1	6·4	6·8	8·0	9·5	10·7

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

SEPTEMBER. (IN MILES PER HOUR.)

Hours.									Mean.	Mean by Beckley's Anemograph.	Maximum.		Minimum.		Date.
15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24			Time.	Mag.	Time.	Mag.	
											H. M.		H. M.		
20	11	8	12	12	16	16	14	12	15·3	10·7	14 28	24	17 50	7	1
15	16	13	16	14	14	11	9	6	12·4	8·0	18 50	24	23 30	6	2
10	10	10	10	8	6	7	7	6	7·1	3·7	15 20	15	11 40	4	3
9	10	10	9	9	7	7	6	7	6·8	3·5	16 0	12	9 20	4	4
9	14	14	13	10	10	9	9	9	9·4	5·4	14 5	25	9 0	5	5
11	10	11	11	9	7	6	16	10	8·6	5·0	22 15	24	12 10	4	6
14	14	14	12	11	10	10	9	9	8·7	5·1	17 40	21	10 32	1	7
10	9	7	7	6	7	6	6	7	9·7	5·9	11 10	17	22 0	6	8
14	15	14	12	7	5	5	8	5	9.8	3·1	15 35	26	10 39	4	9
12	14	14	11	11	8	6	8	5	10·0	7·3	16 15	19	11 25	4	10
11	10	9	10	9	8	7	6	6	8·0	5·8	15 17	14	11 12	4	11
12	12	12	10	8	8	7	8	7	7·8	5·0	17 28	16	10 40	2	12
12	12	13	13	14	13	12	11	12	9·3	5·9	19 56	19	2 15	4	13
14	14	12	12	12	11	10	12	14	10·9	7.3	23 10	23	7 50	6	14
17	18	16	15	11	10	10	11	11	12·6	9.0	16 17	26	6 20	5	15
19	17	14	12	8	6	7	5	4	9·3	5·6	14 31	26	7 27	1	16
18	19	17	13	9	10	11	11	10	9·1	6·2	16 56	25	2 10	2	17
14	15	11	8	8	9	7	7	9	8·6	5·3	16 55	21	10 34	3	18
12	16	10	10	12	10	8	6	8	8·5	5·5	16 22	31	8 9	2	19
9	6	4	1	1	1	8	5	3	5·0	2·5	13 22	12	19 5	1	20
10	7	8	5	4	9	7	6	5	6·9	4·1	14 50	14	0 1	2	21
14	15	15	14	14	13	12	11	11	9·6	6·2	17 13	21	6 13	2	22
17	15	15	12	12	12	11	10	11	11·0	7·4	14 17	22	7 15	5	23
17	16	13	11	9	8	9	9	8	10·4	6·9	14 59	22	7 3	5	24
11	9	10	11	8	6	5	4	20	7·7	4·8	23 30	26	10 43	3	25
10	10	8	7	7	16	11	13	12	13·5	10·3	20 40	44	12 15	5	26
11	14	6	11	10	5	9	10	12	8·0	5·3	18 56	35	7 0	0	27
7	7	5	8	13	6	8	10	9	7·8	4·7	19 58	23	16 55	1	28
22	18	17	15	13	14	13	10	9	17·8	14·1	11 35	31	23 51	6	29
9	7	6	5	6	11	3	6	2	8·9	5·7	20 30	17	21 58	1	30
13·0	12·7	11·2	10·5	9·5	9·2	8·6	8·8	8·6	9·6	6·3					Mean.

OCTOBER.

5	6	7	5	11	10	7	5	13	6·5	3·7	23 20	24	11 45	1	1
15	7	9	7	7	6	5	3	4	8·1	4·7	15 32	24	11 15	3	2
7	7	4	5	2	17	5	1	6	6·7	4·0	20 44	44	23 25	0	3
7	5	3	6	7	7	7	10	11	6·8	4·5	23 12	16	3 28	2	4
10	8	4	5	7	5	6	7	7	6·4	3·8	14 28	16	11 10	1	5
10	10	11	10	12	12	12	14	16	9·5	5·7	23 20	19	1 50	3	6
8	9	7	5	5	5	5	5	5	8·1	5·5	0 3	19	10 4	3	7
13	12	12	12	11	12	11	10	8	8·7	5·9	12 52	19	10 50	0	8
15	15	15	15	12	10	10	6	7	9·7	6·6	16 32	22	9 30	2	9
18	8	8	8	8	6	4	3	5	8·3	5·2	6 45	31	22 40	2	10
12	12	13	11	11	8	8	7	7	8·6	5·5	16 45	17	8 45	2	11
13	13	12	11	10	9	8	7	4	8.2	5·3	16 40	19	8 25	0	12
15	15	14	14	13	12	10	9	8	9·9	6·8	15 57	23	9 20	2	13
14	13	11	9	12	8	8	6	7	8·1	5·3	15 30	22	10 47	1	14
12	12	10	11	8	8	10	9	9	7·7	4·9	17 56	17	11 15	2	15
15	16	14	11	8	7	5	5	5	8·2	5·6	16 5	22	8 15	1	16
10	8	7	4	4	4	4	3	4	5·4	3·7	14 55	16	11 10	0	17
10	10	8	7	3	2	2	3	4	6·2	3·9	16 29	14	11 10	0	18
11	13	13	8	7	9	7	3	6	6·6	4·2	16 50	20	9 20	1	19
15	16	14	12	9	8	5	5	5	8·0	5·2	17 4	22	10 55	1	20
13	14	12	11	9	10	7	5	5	8·4	5·3	16 20	19	8 40	2	21
10	10	11	11	9	8	5	6	8	7·8	5·2	14 25	16	21 40	4	22
10	10	9	11	10	7	7	6	6	7·6	5·3	17 57	15	11 50	3	23
12	14	12	11	8	5	4	5	7	7·7	5·3	16 25	19	21 25	3	24
12	11	7	9	9	6	5	4	7	8·2	5·5	14 20	17	22 55	3	25
12	12	11	12	10	7	6	5	4	9·2	6·3	15 55	18	12 20	2	26
8	9	9	9	6	6	5	5	7	7·1	5·0	4 34	13	12 50	3	27
11	11	11	11	9	9	7	6	5	8·5	5·9	16 30	15	6 50	3	28
11	11	10	12	13	10	8	7	6	8·8	6·0	19 5	17	10 5	3	29
10	10	10	10	10	9	7	7	6	7·3	4·7	17 2	13	5 18	3	30
10	11	14	13	12	12	7	3	5	8·2	5·5	17 12	18	10 37	0	31
11·1	10·9	10·1	9·5	8·8	8·2	6·7	5·8	6·7	7·9	5·2					Mean.

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

NOVEMBER. (IN MILES PER HOUR.)

Date.	Hours.														
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13	13—14	14—15
1	5	6	6	7	7	8	7	6	4	3	3	4	4	5	7
2	7	6	6	7	9	10	11	12	13	9	8	5	5	5	8
3	4	10	8	7	9	10	11	10	11	11	7	5	5	5	10
4	5	6	8	8	10	11	11	13	12	11	10	7	4	6	9
5	8	9	9	10	11	13	13	11	12	9	7	8	8	7	6
6	9	10	8	8	5	5	5	5	4	4	5	6	6	6	8
7	3	6	8	7	7	10	9	8	6	4	3	5	7	8	11
8	5	4	4	4	10	10	10	9	9	10	3	3	7	9	11
9	5	5	7	5	7	8	6	5	6	6	5	6	10	13	15
10	5	5	7	6	5	6	7	8	8	9	7	5	6	6	7
11	10	10	11	7	7	5	7	10	9	9	9	5	7	9	11
12	4	3	4	5	7	7	6	4	5	7	7	5	5	9	8
13	4	5	7	6	7	8	8	12	10	8	9	10	6	6	8
14	4	4	7	6	7	6	9	13	15	15	14	12	9	4	3
15	8	8	9	9	9	11	8	8	9	8	5	5	4	8	10
16	4	3	4	5	7	10	10	8	8	7	4	4	9	11	11
17	4	4	3	7	7	7	8	10	7	7	7	8	9	9	10
18	4	4	4	3	5	5	8	8	7	7	5	5	8	9	10
19	4	4	7	8	10	7	9	10	7	6	4	5	5	6	9
20	5	5	5	6	5	6	6	6	5	6	6	4	6	8	9
21	7	7	5	5	4	5	5	7	7	7	6	5	6	9	9
22	5	5	8	6	6	9	6	6	7	8	7	6	5	5	10
23	8	6	7	12	10	9	8	9	9	9	9	11	10	9	7
24	7	7	7	9	9	12	16	16	14	12	10	11	9	9	9
25	6	9	9	11	13	15	17	19	20	16	16	11	10	7	11
26	6	8	8	8	11	13	13	13	14	13	10	9	7	8	10
27	6	7	8	10	11	13	14	15	14	14	11	7	7	6	6
28	8	7	13	11	9	11	11	11	11	10	8	7	9	8	9
29	7	7	9	11	9	10	12	12	13	13	9	5	5	6	7
30	4	5	5	9	9	9	9	11	11	10	6	5	4	7	8
Mean . .	5·7	6·2	7·0	7·4	8·1	9·0	9·3	9·8	9·6	8·9	7·3	6·5	6·7	7·4	8·9

DECEMBER.

1	5	3	5	6	8	9	8	8	7	8	6	6	5	8	8
2	5	7	8	6	9	10	10	8	7	5	4	5	10	11	11
3	5	8	11	12	12	11	13	14	13	9	3	4	6	8	10
4	6	4	3	2	2	5	7	7	6	5	4	4	4	6	7
5	5	6	7	7	9	10	11	10	8	6	5	4	6	9	10
6	5	7	6	5	5	9	12	7	9	11	10	7	10	11	12
7	7	7	8	5	7	8	7	8	8	7	7	7	9	11	13
8	6	6	8	5	6	9	11	11	10	9	7	5	4	5	7
9	5	5	6	5	6	10	11	12	12	13	9	5	5	7	10
10	7	8	6	6	7	11	11	10	8	7	6	5	6	7	9
11	8	7	7	8	8	11	10	9	8	5	3	3	5	8	8
12	7	5	6	5	7	8	7	6	6	6	7	6	5	6	9
13	5	4	5	6	9	5	5	5	7	6	5	5	11	11	10
14	6	7	8	7	7	7	7	4	6	7	8	7	6	10	12
15	7	7	8	8	7	6	5	5	6	5	6	5	7	11	14
16	10	8	10	6	5	6	6	6	3	8	6	5	6	8	12
17	7	7	8	6	6	6	7	6	6	8	6	5	8	13	17
18	9	9	9	9	10	9	7	6	6	9	8	5	4	6	10
19	7	6	7	8	10	14	16	13	8	12	17	14	11	13	14
20	7	9	7	7	8	12	13	16	16	15	15	15	12	13	15
21	12	13	10	11	11	10	8	8	8	7	8	7	10	12	12
22	6	8	9	11	11	8	7	8	8	5	5	5	5	5	8
23	3	3	3	4	5	6	6	9	5	5	4	5	8	10	10
24	5	5	5	7	6	8	9	8	9	10	10	11	14	14	15
25	8	8	10	11	10	11	12	11	10	13	18	17	17	19	20
26	6	7	8	8	8	8	7	6	11	12	11	9	8	9	16
27	7	6	6	6	7	8	9	7	7	8	8	6	8	12	13
28	6	5	5	7	7	7	7	6	6	9	6	5	5	6	8
29	7	6	6	6	6	7	7	6	6	8	6	4	8	9	12
30	7	5	4	6	6	5	5	9	10	8	4	3	4	6	6
31	8	7	7	5	5	5	5	4	4	5	4	7	14	15	16
Mean . .	6·6	6·5	7·0	6·8	7·4	8·4	8·6	8·2	7·9	8·1	7·3	6·5	7·8	9·6	11·4

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

NOVEMBER. (IN MILES PER HOUR.)

Hours.									Mean.	Mean by R. Beckley's anemo-graph.	Maximum.		Minimum.		Date.
15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24			Time.	Mag.	Time.	Mag.	
											H. M.		H. M.		
9	9	9	9	9	7	6	7	7	**6·4**	**3·7**	18 50	12	9 55	2	1
9	9	9	8	5	5	5	4	4	7·5	4·7	6 33	15	23 0	2	2
11	9	10	11	12	9	6	5	6	8·4	5·6	19 35	16	0 3	3	3
11	12	10	12	14	10	8	6	7	9·2	6·2	19 10	17	22 7	3	4
12	12	11	11	10	9	9	10	9	9·7	6·8	16 54	18	10 55	4	5
7	6	11	10	11	5	5	3	3	6·5	4·2	17 20	20	8 45	2	6
12	11	10	9	8	9	8	8	7	7·7	5·4	15 50	17	9 30	3	7
13	12	10	6	4	**2**	2	4	3	6·8	4·3	16 10	17	22 0	**1**	8
14	12	11	9	7	8	7	5	**5**	7·8	5·6	14 48	18	11 0	2	9
10	10	8	7	6	5	7	8	7	6·9	4·2	15 42	13	7 0	3	10
15	10	6	5	5	4	4	4	5	**7·7**	5·3	15 35	19	19 0	2	11
11	13	13	11	9	7	8	8	5	7·1	4·5	15 40	17	8 10	2	12
10	8	8	9	11	9	8	5	5	7·8	5·4	15 20	14	12 55	3	13
3	7	10	11	11	9	9	8	8	8·5	5·7	10 5	19	15 0	2	14
10	6	6	6	4	3	3	4	4	6·9	4·3	14 30	15	20 30	3	15
11	12	12	13	11	6	5	4	3	7·6	5·2	18 55	18	2 20	1	16
10	9	7	6	4	4	4	3	3	6·5	4·1	15 25	14	2 13	3	17
11	13	14	12	10	6	5	4	5	7·2	5·0	17 45	19	0 0	3	18
9	11	12	14	12	10	7	6	6	7·8	5·4	16 55	18	10 45	3	19
10	10	11	11	9	9	7	6	5	6·9	4·9	17 56	16	8 15	3	20
10	11	11	10	9	6	7	8	7	7·2	5·0	16 35	16	4 15	4	21
11	12	11	11	11	7	8	10	7	7·8	5·3	16 12	14	7 10	4	22
8	13	14	14	13	14	13	9	8	10·0	6·9	20 15	19	14 2	5	23
11	12	16	15	12	12	12	10	7	11·0	7·3	17 30	**23**	3 0	6	24
11	10	12	12	11	8	8	10	7	**11·6**	**8·3**	8 25	23	23 50	5	25
11	11	13	15	13	13	9	8	7	10·5	7·3	18 55	19	1 25	4	26
11	13	14	13	12	10	7	7	6	10·1	7·0	17 32	20	14 15	3	27
10	11	11	12	13	11	11	9	7	9·9	7·1	19 15	16	11 0	4	28
7	9	9	8	9	7	7	6	4	8·4	6·1	9 25	16	23 20	4	29
8	8	7	7	7	7	6	6	5	7·2	5·3	8 50	14	0 2	4	30
10·2	10·4	**10·5**	10·2	9·4	7·7	7·0	6·5	5·7	8·2	5·5					Mean.

DECEMBER.

8	8	10	11	12	12	8	6	5	7·5	5·3	19 15	16	2 0	3	1
13	15	15	15	12	11	9	6	5	9·0	6·3	18 45	22	9 50	2	2
10	8	7	7	6	8	7	6	5	8·5	5·6	3 15	17	10 30	3	3
8	8	8	11	8	6	5	5	5	**5·7**	**3·7**	19 3	15	5 0	2	4
10	10	13	13	12	10	8	6	7	8·4	5·5	17 35	17	11 45	2	5
13	15	16	17	14	10	8	10	8	9·9	6·7	17 50	24	11 42	4	6
14	14	15	15	12	7	5	5	5	8·8	6·0	18 35	19	7 20	4	7
10	10	9	6	5	3	5	5	5	7·0	4·6	16 3	13	12 40	3	8
11	11	11	8	6	5	4	3	5	7·7	5·5	17 45	15	22 30	3	9
10	11	9	9	8	7	5	6	8	7·8	5·4	16 45	13	11 45	4	10
10	11	11	10	8	4	3	5	6	7·3	5·2	15 30	15	11 20	**1**	11
8	10	11	10	11	9	6	6	5	7·2	5·2	17 45	14	8 35	3	12
12	14	13	16	14	12	9	7	6	8·4	6·3	18 40	20	11 15	2	13
14	17	16	17	16	14	9	8	5	9·4	6·5	18 15	24	12 20	3	14
16	16	16	18	**22**	19	12	11	8	10·2	7·3	20 5	31	9 10	2	15
15	18	19	19	16	15	13	10	9	10·0	7·3	17 3	26	8 30	1	16
17	17	18	18	17	18	16	12	9	10·7	8·0	19 12	27	7 55	3	17
12	12	15	14	11	7	7	7	7	8·7	5·7	17 56	20	8 5	3	18
11	12	13	13	16	17	8	10	7	11·5	8·6	20 30	**33**	21 20	3	19
16	16	16	16	14	14	15	14	14	13·1	9·5	16 8	24	0 20	5	20
14	17	15	16	15	13	11	9	7	11·0	8·3	16 40	22	9 35	3	21
10	9	7	7	6	4	3	3	3	6·7	5·1	3 40	13	13 0	3	22
11	11	11	12	13	12	8	6	6	7·3	5·4	16 55	17	1 0	2	23
16	18	19	20	19	17	14	10	11	11·7	8·7	17 40	28	7 35	3	24
19	18	18	16	16	14	14	13	9	**13·8**	**10·4**	14 32	28	8 55	4	25
17	17	16	17	16	15	13	11	10	11·1	7·7	16 25	24	13 5	4	26
15	16	18	16	13	9	7	5	5	9·3	6·6	17 25	23	7 25	2	27
12	14	14	14	13	10	9	9	9	8·3	6·0	17 7	21	11 30	3	28
12	13	12	14	12	11	6	9	8	8·4	6·0	18 35	17	11 7	3	29
7	6	7	7	8	7	7	8	6	6·3	4·7	8 25	12	11 8	2	30
16	15	12	13	13	12	11	10	10	9·3	7·2	14 30	22	9 25	2	31
12·5	13·1	13·2	**13·4**	12·4	10·7	8·5	7·8	7·0	9·0	6·5					Mean.

JANUARY. (Averages for periods of sixty minutes from full hour to full hour of local mean time.)

Date.	Hours.											
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12
1	N	N	N	N	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE
2	N	N	NNE	NE	NE	NE	ENE	ENE	ENE	ENE	ENE	ENE
3	N	N	N	ENE	E	ENE	ENE	ENE	ENE	NE	NE	NE
4	N	NNE	NNE	NE	NE	NE	NE	NE	NE	NE	NE	NE
5	N	NNE	NNE	NNE	ENE	NE	NE	NE	NE	NE	NE	NE
6	N	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	NE	NE
7	N	NE	NE	NE	ENE	ENE	ENE	NE	NE	NE	NE	NE
8	N	NNE	NNE	NNE	NE	ENE	ENE	E	E	ENE	NE	NE
9	NE	NE	NE	NE	NE	N	ENE	E	E	E	ESE	SE
10	SE	SE	SE	SE	N	N	N	N	NE	ENE	ENE	ENE
11	NNE	NNE	N	NNE	NNE	NNE	NNE	NNE	NE	NE	NE	NE
12	NNE	N	N	N	N	NNE	NE	NE	ENE	ENE	ENE	W
13	NNE	NNE	N	N	NE	ENE	ENE	ENE	ENE	NE	NNE	WNW
14	N	N	N	N	NNE	NNE	NNE	NE	N	N	NNE	NW
15	N	N	N	N	NNE	NNE	ENE	NE	NE	NE	ENE	WNW
16	NNW	NNE	NNE	NNE	NNE	NNE	ENE	ENE	ENE	ENE	N	NW
17	N	N	N	N	ENE	ENE	ENE	NE	NE	ENE	ENE	E
18	N	N	N	NNW	N	N	N	N	N	NE	ENE	NW
19	N	N	N	NNE	NNE	NNE	NE	N	N	NNW	NNW	NNW
20	N	N	N	N	N	NNE	NNE	N	N	NE	E	NW
21	NNE	NNE	NNE	N	N	N	N	NNE	N	N	ENE	NNW
22	ENE	ENE	ENE	NE	ENE	NE	ENE	NE	ENE	NE	NE	NE
23	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	E	E	E
24	N	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	NE	ENE	ENE
25	N	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	WNW	WNW
26	NNE	NNE	NNE	NNE	NNE	ENE	NE	NE	NE	ENE	E	E
27	SSW	SE	W	W	WSW	W	SE	SE	SE	ENE	SSW	NNW
28	N	N	N	ENE	NE	NE	ENE	ENE	NE	NE	NE	NE
29	N	NNE	N	ENE	N	N	N	N	N	N	NNE	NNW
30	N	N	N	N	N	N	N	N	N	NNE	NNE	NNE
31	N	N	N	N	N	N	N	N	N	NNE	NNW	NNW
Mean direction.	N	NNE	NNE	NNE	NE	NE	NE	NE	NE	NE	NE	NNE

FEBRUARY.

1	N	N	N	N	N	N	NNE	NE	NE	NE	NE	NE
2	NE	NE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	NE	NE
3	N	N	ENE	ENE	NE	NE	NNE	NE	NE	NE	NE	NW
4	N	N	N	NNE	ENE	ENE	ENE	ENE	NE	NE	NW	NNW
5	N	N	NNE	ESE	ESE	ESE	ESE	E	ENE	ENE	ENE	WSW
6	NNW	NNW	NNW	ESE	ESE	ESE	E	NE	NE	NE	WNW	SW
7	ESE	ESE	ESE	SE	SE	ESE	SE	SE	SE	ESE	ESE	SSW
8	NNW	NNW	NE	NE	ESE	ESE	ESE	ESE	SE	SE	SSE	SW
9	E	E	E	E	NE	N	E	NE	NE	ENE	ENE	WSW
10	NW	NNW	NNW	N	N	NNE	NNE	NNE	NNE	NW	NW	NW
11	NNW	N	N	N	N	N	N	N	NNW	NNW	NNW	NW
12	N	N	N	ENE	ENE	NE	ENE	ENE	NE	NE	NE	NE
13	SSE	SSE	SE	SE	N	N	N	N	N	NE	NE	NW
14	NNW	NNW	N	N	N	N	N	N	NE	N	NNW	NW
15	N	N	NNE	ENE	ENE	ENE	NE	NNE	N	NE	NNE	WNW
16	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NE	NE	NE	NE	WNW
17	NNW	N	N	N	NNE	N	NE	NE	NE	NE	NE	WNW
18	N	N	N	NE	NNE	N	ENE	ENE	ESE	ENE	ENE	NW
19	N	NNW	N	N	N	N	N	N	ENE	ENE	WNW	NW
20	N	N	NNW	N	N	NNE	NNE	NNE	NE	ENE	ENE	NW
21	NW	NNW	NNE	N	NNE	N	N	NNW	N	NW	WNW	WNW
22	NE	NE	NE	NE	NE	NW	N	NNW	NNW	NNW	NW	WNW
23	N	N	N	N	N	NNE	N	N	NE	NE	NW	NW
24	NNW	NNW	N	N	N	N	N	NE	NE	NE	NE	WNW
25	ENE	N	ENE	ENE	ENE	NNE	N	NNE	NNE	NNE	N	NNE
26	SSW	SSE	SSE	SSE	SSE	SSE	ESE	ESE	ENE	E	ESE	SW
27	SSW	SE	SE	ESE	ESE	ESE	ESE	ESE	ESE	SE	SE	SW
28	NNW	NNW	NNW	N	NNE	NNE	NNE	NE	NE	NE	NE	WNW
Mean direction.	N	N	NNE	NE	NE	NNE	NE	NE	NE	NE	NNE	NW

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

JANUARY.

Hours.												Mean direction.	Date.
12—13	13—14	14—15	15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24		
NW	NW	NW	NW	NNW	NNW	NNW	N	N	N	N	N	N	1
NE	NW	WNW	NW	NW	NNW	NNW	N	N	N	N	N	NNE	2
NE	WNW	NW	WNW	WNW	NNW	NNW	N	N	N	N	N	N	3
NW	NW	NW	NW	NW	NNW	NNW	NNW	NNW	N	N	N	N	4
NE	NE	NW	WNW	NW	NNW	NNW	NNW	NNW	N	N	N	N	5
NE	NE	NNE	NNE	WNW	NNW	NNW	NNW	NNW	NNW	N	N	NNE	6
NNE	NNE	NE	WNW	NW	NNW	NNW	NNW	NNW	NNW	N	N	NNE	7
W	W	WNW	WNW	NNW	NNW	NNW	N	N	NNE	NE	NE	NNE	8
SW	WSW	W	WNW	NW	NW	NNW	NNW	N	N	E	SE	NNE	9
WNW	NW	NW	NW	NNW	NNW	NNW	NNW	NNW	N	N	N	NNW	10
NW	NW	NNW	NNW	NNW	NNW	N	N	N	N	N	NNE	N	11
WNW	NW	NW	NW	NNW	NNW	N	N	N	N	N	NNE	N	12
WNW	NW	NNW	NNW	NNW	NNW	N	N	N	N	N	N	N	13
NNW	NNW	NNW	NW	NW	NW	NNW	NNW	NNW	NNW	N	NNW	NNW	14
NW	NW	NW	NW	NW	NW	NNW	NNW	NNW	NNW	N	N	NNW	15
NW	WNW	WNW	WNW	WNW	WNW	NW	NW	NW	NW	NW	NW	NNW	16
W	WNW	WNW	WNW	NW	NW	NNW	NNW	NNW	NNW	NNW	N	N	17
NW	NW	NW	NW	NW	NNW	NNW	NNW	NNW	N	N	N	NNW	18
NW	NW	NW	NW	NW	NW	NNW	NNW	NNW	NNW	N	N	NNW	19
NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	N	NNE	E	ENE	N	20
NNW	NW	NW	NNW	NNW	NNW	NNW	NNW	N	N	N	NNE	N	21
WNW	WNW	NW	NNW	NNW	NNW	NNW	NNW	NNW	N	N	N	N	22
ESE	WSW	WSW	W	WNW	WNW	NW	NNW	NNW	N	N	N	ENE	23
WNW	WNW	WNW	WNW	NW	NW	NNW	NNW	NNW	NNW	N	N	N	24
WNW	WNW	WNW	NW	NW	NW	NNW	NNW	NNW	NNW	N	N	NNW	25
NW	W	W	WNW	WNW	WNW	NW	WNW	W	NNW	WSW	SSW	N	26
NNW	NW	NNW	NNW	NW	NNW	NNW	NNW	NNW	NNW	N	N	NNW	27
NE	NE	WNW	WNW	WNW	WNW	NW	NNW	NNW	NNW	N	N	N	28
NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	N	N	N	N	29
NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	N	N	N	N	30
NNW	NNW	NNW	NNW	NNW	NNW	N	N	N	N	N	N	N	31
NNW	NW	NW	NW	NW	NNW	NNW	NNW	NNW	N	N	N	WNW	Mean direction

FEBRUARY.

NNE	NW	NNW	NNW	NNW	NNW	NNW	N	N	N	N	NE	N	1
NE	NE	W	WNW	NW	NNW	NNW	NNW	N	N	N	N	NNE	2
NW	NW	NW	NNW	NW	NNW	NNW	N	N	N	N	N	N	3
NNW	NW	NW	NW	NNW	NNW	NNW	NNW	N	N	N	N	NNW	4
WSW	W	W	WNW	NW	NNW	NNW	NNW	NNW	N	N	NNW	NNW	5
SW	SW	SW	SW	SW	WSW	W	WSW	WSW	W	NE	NE	WSW	6
SSW	SSW	SSW	SW	SW	SW	WSW	W	WNW	WNW	NNW	NNW	S	7
WSW	WNW	WSW	W	W	WNW	WNW	WNW	WNW	NW	NW	NNW	W	8
WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	NW	NW	NNW	NW	NW	9
NW	NW	NW	NW	NW	NNW	NNW	NNW	NNW	N	N	NNW	NNW	10
NW	NW	NW	NW	NNW	NNW	NNW	NNW	N	N	N	N	NNW	11
NW	WNW	WNW	WNW	WNW	WNW	NW	NNW	NNW	NNW	S	S	N	12
NW	NW	NW	NW	NNW	NNW	NNW	NNW	N	N	N	NNW	NNW	13
NW	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	N	N	N	NNW	14
WNW	WNW	WNW	WNW	WNW	NW	NNW	NNW	N	N	N	NNE	NNW	15
NW	NW	WNW	WNW	WNW	WNW	NNW	NNW	N	N	N	N	NNW	16
NNW	NNW	NW	NNW	NNW	NNW	NNW	NNW	N	N	N	NNE	N	17
NW	NW	NW	NW	NNW	NNW	NNW	NNW	NNW	N	N	N	N	18
NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	N	N	NNW	19
NW	WNW	WNW	WNW	WNW	WNW	NW	NNW	NNW	NNE	NNW	NNW	NNW	20
WNW	WNW	W	W	W	WNW	WNW	NW	NW	N	NE	NE	NW	21
WNW	NW	NW	NW	NW	NW	NW	NNW	NNW	N	N	N	NNW	22
NW	WNW	NW	NW	NW	NNW	NNW	NNW	N	N	NNW	NNW	NNW	23
NW	NW	NW	NW	NW	NW	NNW	NNW	NNW	N	NNW	N	NNW	24
WNW	WNW	WNW	NW	NW	NNW	NNW	NNW	N	N	S	S	NNW	25
SW	SW	SSW	SSW	SW	SW	WSW	WSW	SW	SW	SW	SSW	S	26
WSW	W	W	WNW	WNW	WNW	WNW	NNW	NNW	NNW	NNW	N	W	27
WNW	WNW	WNW	NW	NW	NW	NW	NNW	NNW	NNW	NNW	NNE	NNW	28
NW	WNW	WNW	NW	NW	NW	NNW	NNW	NNW	N	N	N	NNW	Mean direction

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

MARCH.

Date.	Hours.											
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12
1	N	N	N	NNE	N	N	NNE	NNE	NE	NW	NW	WNW
2	NNW	NNW	NNW	NNW	N	N	NNE	N	N	NNE	W	WNW
3	SSE	SSE	SSE	NW	NNW	N	NE	SE	ESE	SE	SE	W
4	NW	NNW	NW	NW	N	N	N	ESE	E	ENE	ENE	WNW
5	NNW	NNW	NNW	NNW	N	NNW	NW	NNW	ESE	ESE	WSW	WSW
6	WSW	WNW	NW	NW	NNW	NNW	ESE	ESE	ESE	NE	NE	NE
7	E	E	N	NNW	SE	SE	SE	NE	ENE	ENE	NE	WSW
8	W	WNW	WNW	NNW	N	ENE	NE	NE	ENE	ESE	SSE	SW
9	S	WSW	WSW	WSW	SW	SE	SE	SE	SE	SE	SE	SW
10	SW	SW	SSW	SSE	SE	SE	SE	SE	SE	S	S	SSW
11	WSW	WSW	WSW	SSE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	WSW
12	SW	SW	SW	NW	NW	N	N	NE	NE	NE	WNW	WNW
13	NW	NW	NW	NNW	NNW	NNW	N	NNE	ENE	NE	NE	W
14	NW	NW	NNW	NNW	NNW	N	N	NE	NE	NE	NW	WNW
15	NNW	NNW	NNW	NNW	NNW	NNW	NNE	ESE	ESE	ESE	SSE	SSW
16	S	SSW	WSW	WNW	NW	ESE	ESE	ESE	ESE	ESE	SSW	SW
17	WSW	WSW	SW	SW	SW	ESE	ESE	ESE	ESE	ESE	WSW	WSW
18	WSW	W	WNW	NW	NW	NW	ENE	ENE	ENE	E	E	SW
19	SSW	SSW	SSW	W	W	NW	NW	SE	ESE	SE	SE	WSW
20	ENE	ENE	NE	NNW	NE	NNE	NE	NE	ENE	E	E	E
21	NNW	NNW	NNW	N	NNE	ENE	ENE	ENE	ENE	NE	NE	NE
22	W	WNW	NNW	NNW	ESE	ESE	ESE	SE	ESE	E	W	WNW
23	NNW	NNW	N	NNE	NNE	NNE	N	N	NW	NW	WNW	WNW
24	NNW	NNE	NNE	ENE	NNE	NNE	N	N	N	NW	WSW	W
25	NNW	N	NE	NNW	N	N	N	SE	SE	WNW	W	W
26	N	N	N	N	N	N	NE	NE	ENE	ENE	WNW	NW
27	NNW	N	N	N	N	N	N	SE	SE	S	SSW	SW
28	W	W	SW	SW	SE	SE	SSE	ESE	SE	S	SSW	SW
29	NNW	NNW	N	ENE	ENE	NE	N	NE	ENE	NNW	WNW	WNW
30	W	NW	NW	NNW	N	NNE	NE	NE	NE	ENE	ENE	WSW
31	NNW	NNE	N	NE	NNE	NNE	NNE	N	N	NE	NW	WNW
Mean direction.	NW	NW	NNW	NNW	NNE	NE	NE	ENE	E	E	W	W

APRIL.

1	NNW	NNE	NNE	N	NNE	NE	NE	NE	ENE	NW	WNW	WNW
2	NNW	NNW	NNE	NNE	N	NNE	NE	ENE	ENE	NE	SSW	W
3	SW	WSW	SSW	SSE	ESE	ESE	ESE	ESE	SE	SSW	WSW	WSW
4	WSW	WSW	W	WSW	NW	ESE	ESE	ESE	ESE	S	SSW	WSW
5	WNW	WNW	NW	ESE	ESE	ESE	ESE	ESE	ESE	S	WSW	WSW
6	NW	NW	WNW	WNW	NW	ENE	ENE	ENE	ESE	SE	W	WNW
7	N	NW	NNW	NW	N	N	N	NNE	ENE	ESE	W	WNW
8	NNW	NW	NW	NNW	NNW	NNW	N	N	N	ENE	WNW	WNW
9	S	SSW	SSW	SSW	SW	SW	WSW	WNW	WNW	NW	WNW	W
10	SSE	WSW	NW	NW	NNW	NE	ENE	NE	ENE	N	NE	ENE
11	E	ENE	NNW	N	NNE	NNE	NNE	NNE	NE	NE	WNW	WNW
12	NNW	NNW	N	NNE	NNE	NNE	NE	NNE	NNW	NNW	NW	NW
13	N	N	N	NNE	NE	E	NNE	N	NNW	NW	W	WNW
14	NNW	NNE	N	NNE	NNE	NNE	NNE	NE	NE	NW	NW	WNW
15	WNW	NW	NW	NNW	NNW	NNE	NE	ENE	ENE	ENE	WNW	NW
16	WSW	WNW	NW	NNW	NW	ESE	SE	SE	SE	S	WSW	W
17	SSW	SSW	SSW	SSW	SW	SW	SW	SE	SE	SW	WSW	WSW
18	W	WSW	SW	SW	SSW	SSW	SSE	SE	SE	W	WSW	W
19	NW	NW	NW	NNW	NW	NNW	N	E	NE	WNW	WNW	WNW
20	N	N	N	N	N	N	N	N	N	NE	SW	WNW
21	NNW	NNW	NNW	NNW	NE	NE	ENE	NE	ESE	ESE	ESE	W
22	NNW	NNW	NNW	NNE	NE	NNW	ESE	ESE	ESE	SE	SW	SW
23	SSE	SSE	ESE	ESE	E	ESE	NW	SE	WNW	E	ENE	WNW
24	ENE	NE	ESE	ESE	NNE	N	N	ESE	ESE	SE	SSE	W
25	NW	NNW	NNW	NNW	NNE	NNE	NNE	NE	ENE	E	W	W
26	NW	NW	NW	NW	NW	NNW	NNE	E	SE	ESE	WNW	W
27	W	WNW	WNW	NW	NNW	N	ESE	ESE	ESE	WNW	WNW	WNW
28	WNW	WNW	WNW	NW	NW	NW	NW	NNW	NW	WNW	WNW	WNW
29	NW	WNW	WNW	WNW	NW	W	WNW	WNW	WNW	NW	NW	NW
30	WNW	WNW	NW	NW	SW	SSW	SW	W	WNW	WNW	WNW	NW
Mean direction.	NW	NW	NW	NNW	N	NE	NE	ENE	ENE	N	W	WNW

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

MARCH.

Hours.												Mean direction.	Date.
12—13	13—14	14—15	15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24		
WNW	WNW	WNW	WNW	NW	NW	NW	NNW	NNW	NNW	NNW	N	NNW	1
WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	NNW	N	N	SSE	NW	2
W	WNW	WNW	WNW	WNW	WNW	NW	NW	NW	NW	NW	NW	WNW	3
WNW	WNW	WNW	WNW	WNW	WNW	NW	NW	N	N	N	NNW	NW	4
WSW	W	W	W	WNW	WNW	WNW	NW	NW	SW	SSW	SSW	WNW	5
SW	WSW	W	W	WNW	WNW	NNW	N	NE	ESE	ESE	E	NW	6
W	WSW	WSW	WSW	WNW	WNW	SW	SSW	SSW	SSW	SSW	SSW	WSW	7
WSW	WSW	W	W	W	WNW	NW	WNW	SSW	SSW	S	S	W	8
WSW	WSW	WSW	SW	WSW	SW	SW	SSW	SSW	S	S	SSW	SSW	9
SSW	SSW	SSW	SSW	SW	SW	SW	SW	SW	SSW	SSW	SSW	S	10
WSW	WSW	WSW	WSW	SW	SW	WSW	WSW	WSW	WSW	WSW	SW	SSW	11
WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	NW	NW	NW	NW	NW	12
WNW	WNW	WNW	WNW	WNW	NW	NW	NW	NNW	NNW	NNW	NW	NW	13
WNW	NW	NW	NW	NW	NW	NNW	NNW	NNE	WNW	NW	NW	NNW	14
SSW	SW	SW	SW	SW	SW	W	WSW	SW	SSE	SSE	SSE	WSW	15
SW	SW	SW	SW	SW	WSW	WSW	SW	SSW	SSW	SSW	WSW	SSW	16
WSW	WSW	WSW	WSW	SW	SW	SW	SW	SSW	SSW	SSW	SW	SW	17
SW	WSW	WSW	WSW	SW	SW	WSW	W	WSW	SW	SSW	SSW	WSW	18
WSW	W	W	W	WNW	N	NNE	SE	SSE	SSE	SSE	SSE	WSW	19
WNW	WNW	WNW	WNW	W	WNW	WNW	NW	NW	N	ENE	ENE	NNW	20
WNW	WNW	NW	NW	NW	WNW	NW	NW	SSW	SSW	SW	W	NNW	21
WNW	WNW	WNW	NW	NW	NW	NW	NW	NNW	NNW	N	NNW	NW	22
WNW	WNW	WNW	WNW	NW	NW	NW	NW	NW	NNW	NNW	NNW	NW	23
W	W	WNW	WNW	WNW	WNW	WNW	NW	NW	NW	NW	NW	NW	24
WNW	WNW	WNW	NW	NW	NW	NW	WNW	NW	NNW	NNW	N	NW	25
NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	NNW	NNW	NNW	NNW	26
SW	SW	SW	WSW	WSW	WSW	WSW	WSW	SW	SW	WSW	WSW	WSW	27
WSW	W	W	WNW	WNW	WNW	WNW	WNW	NW	NNW	NNW	NNW	W	28
WNW	WNW	WNW	WNW	NW	NW	NW	NW	WNW	SW	SSW	WSW	NW	29
WNW	WNW	WNW	WNW	WNW	NW	NW	NW	NNW	NNW	NNW	NNW	NW	30
WNW	WNW	WNW	WNW	NW	NW	NW	NW	NW	NW	NW	NNW	NW	31
W	W	W	W	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	Mean direction.

APRIL.

WNW	WNW	WNW	WNW	NW	NW	NW	NW	NNW	NNW	NW	NW	NW	1
WNW	WNW	WNW	WNW	WNW	W	WSW	SSW	S	S	S	SW	WNW	2
WSW	WSW	W	W	WNW	W	WNW	WNW	W	WSW	WSW	WSW	WSW	3
WSW	W	W	W	WSW	WSW	WSW	WSW	WSW	W	W	WNW	WSW	4
WSW	WSW	W	W	WNW	W	W	WNW	WNW	WNW	NW	NW	W	5
W	WNW	WNW	WNW	WNW	WNW	WNW	WNW	SE	WNW	WNW	NNW	WNW	6
WNW	NW	NW	NW	NW	NW	NW	NW	NNW	N	N	N	NNW	7
WNW	WNW	WNW	WNW	WNW	NW	NW	NW	NW	NW	NW	S	NW	8
W	WNW	W	W	WNW	N	ESE	NNE	ENE	ENE	SE	SE	WSW	9
W	W	WSW	SW	SW	SSW	SE	SW	SW	SW	SW	ESE	SW	10
WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	NW	NNW	NNW	NNW	NW	11
NW	NW	NW	NW	NW	NW	NW	NW	NW	NNW	N	N	NNW	12
WNW	WNW	WNW	WNW	WNW	NW	NW	NW	NW	NNW	NNW	NW	NW	13
WNW	WNW	WNW	WNW	WNW	WNW	NW	NW	N	NNE	SW	WNW	NW	14
WNW	WNW	WNW	WNW	WNW	NNW	WNW	WNW	WNW	SSW	SSW	SSW	WNW	15
W	W	W	W	WNW	WNW	WNW	WSW	SSW	S	S	SSW	WSW	16
WSW	WSW	WSW	WSW	WSW	WSW	WSW	W	WNW	WSW	WSW	WSW	SW	17
W	WNW	WNW	WNW	WNW	WNW	WNW	NW	NNW	NW	NW	NW	W	18
WNW	WNW	WNW	NW	NW	NW	NW	NW	NNW	NNW	NNW	NNW	NW	19
NW	NW	NW	NW	NNW	NNW	NNW	NW	NNW	NNW	NW	NW	NNW	20
W	WSW	WNW	WNW	WNW	NW	NW	N	NNW	N	NE	NNW	NNW	21
WSW	WSW	WSW	WSW	WSW	W	W	WNW	SW	SSW	SSE	WSW	WSW	22
WNW	WNW	WNW	WNW	WNW	WNW	NW	NNW	NNW	NNW	NE	SE	NW	23
W	WNW	WNW	WNW	WNW	WNW	WNW	NW	NNW	NNW	NW	NW	NW	24
W	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	NW	NW	NW	NW	25
W	W	W	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	26
WNW	WNW	WNW	WNW	NNW	WNW	NW	NW	NW	NW	NW	WNW	WNW	27
WNW	WNW	WNW	WNW	NW	NW	NW	NNW	NW	NW	NW	NW	NW	28
NW	NW	NW	NW	NW	NW	NW	NW	NW	W	W	WNW	NW	29
NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	WNW	30
WNW	WNW	WNW	WNW	WNW	WNW	WNW	NW	NW	NW	WNW	WNW	WNW	Mean direction

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

MAY.

Date.	Hours.											
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12
1	NW	NW	WNW	WNW	WNW	WSW	WSW	SSW	SSW	WSW	WSW	W
2	SW	SSW	SSW	SSW	SSW	SSW	S	SSW	SSW	SSW	SW	SW
3	SW	SSE	SSE	SSE	S	SSW	SW	WSW	W	WSW	WNW	WNW
4	SSW	SSW	SSW	SSW	S	S	SSE	SSE	SSE	SSW	SSW	SSW
5	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW
6	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SW
7	SW	SW	SW	SW	SW	SW	SW	SSW	SSW	SSW	SSW	SW
8	WSW	SW	SW	WSW	SW	SW	SW	SSW	SSW	SSW	SW	SW
9	WNW	WNW	NW	NW	NNW	NNW	NNW	NW	SSW	SSW	SW	SW
10	NNW	WNW	NNW	NNW	NNE	NNE	ENE	ENE	ENE	NW	NW	WNW
11	NW	NW	NNW	NW	NNE	NNE	NNE	ESE	SE	WNW	WNW	WNW
12	WSW	WSW	W	W	WSW	W	W	W	WNW	WNW	WNW	WNW
13	W	W	WSW	W	W	WSW	W	W	W	WSW	W	W
14	WSW	WSW	WSW	WSW	WSW	W	W	WSW	WSW	WSW	W	WSW
15	W	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	W	W
16	WNW	WNW	WNW	WNW	NW	NW	WNW	NW	NW	WNW	WNW	WNW
17	WNW	NW	NW	NW	NW	NNW	NW	NW	NNW	NNW	NW	NW
18	NW	NNW	NNW	NNW	NNW	NNW	NNE	NNE	ENE	ESE	W	WNW
19	NNW	NNW	N	NNE	NNE	NNE	NNE	NNE	NNW	NW	WNW	WNW
20	NNW	NNW	NNW	NNW	N	N	NNE	ENE	NNW	WNW	W	WNW
21	W	WNW	WNW	WNW	WNW	WNW	NW	NW	NW	WNW	W	WNW
22	SW	WSW	SW	SW	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW
23	WSW	WSW	W	W	WSW	WSW	W	W	W	W	W	W
24	W	WNW	WNW	WNW	W	WNW	WNW	WNW	WNW	WNW	WNW	WNW
25	WNW	WNW	NW	NW	NW	NNW	NNW	N	NNW	WNW	WNW	WNW
26	NW	NW	NW	NNW	NW	NW	NW	NW	WNW	NW	WNW	WNW
27	NW	NW	NNW	NNW	NW	NNW	NW	NW	NW	WNW	WNW	WNW
28	W	WSW	W	WSW	WSW	WSW	WSW	SSW	SSW	SW	WSW	WSW
29	WNW	WNW	WNW	NW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW
30	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	W
31	WSW	W	WSW	W	WNW	WNW	WNW	WNW	WNW	WNW	W	W
Mean direction.	W	WNW	W	W	W	W	W	W	W	W	W	W

JUNE.

1	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	W	W	WSW
2	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WNW	SSW	SSW	WSW
3	S	SE	SE	SE	SSE	SSE	SSW	SSE	SE	SSE	S	SSW
4	SSW	SSE	SE	SSE	SSE	SSE	SSE	SSE	S	S	S	SSW
5	SSE	SSE	SSE	SSE	SE	S	SSW	S	S	SSW	SSW	SSW
6	WSW	W	W	WNW	WNW	E	E	ESE	SE	SE	SSE	SSW
7	S	SE	SSE	SE	SSE	SSW	SSE	SSE	SW	W	NW	SW
8	SSW	SSW	SW	SW	SW	WSW	SW	SW	SW	WSW	WSW	WSW
9	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW
10	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW
11	WSW	WSW	WSW	WSW	WSW	W	WSW	WSW	WSW	WSW	WSW	WSW
12	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	SW	SW	SW	SSW
13	SW	SSW	SSW	SSW	SSW	SSW	SSW	S	SW	SSW	SSW	SSW
14	SW	SW	SW	SW	SSW	S	SW	S	SE	S	SSE	SSE
15	S	S	S	SSE	SSE	S	S	S	SSE	S	S	SSW
16	NW	WNW	SSW	S	S	SW	SW	SW	W	WSW	WSW	WSW
17	SW	SE	SE	SE	SE	SSW	SSW	S	SSW	S	NNW	NNW
18	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSW	SSW
19	SSE	SE	SE	SSE	SSE	SSE	SE	SSE	SSE	S	S	S
20	SSE	SE	SE	SE	ESE	ESE	ESE	NNW	SW	SSW	S	S
21	S	SSW	SW	SSW	SSW	ESE	ESE	SE	SSE	ESE	SSE	S
22	NNW	NE	SE	SE	SE	S	WNW	NW	NNW	NNE	ESE	ESE
23	S	S	S	S	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW
24	SW	SSW	SSW	SW	SW	SW	SSE	SW	NNW	WNW	NNW	ESE
25	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	SE	SE	SE
26	SSW	SSW	SSE	SSE	SSE	S	SSW	SSW	SSW	SSW	SSW	SSW
27	SSW	SSE	SSE	SSE	SSE	SE	ESE	SE	SSE	SSE	SSE	S
28	SE	SSE	SSE	SE	SE	SE	SSE	SSE	SSE	SSE	SSE	S
29	SSE	ESE	ESE	ESE	SE	SSE	SSE	S	SSE	S	S	S
30	S	S	SSE	SSE	SSE	SSE	SSE	SSE	SSE	S	S	S
Mean direction.	SSW	S	S	S	S	S	S	S	S	SSW	SSW	SSW

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

MAY.

Hours.												Mean direction.	Date.
12—13	13—14	14—15	15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24		
W	WNW	WNW	WNW	NW	NW	NW	NW	NW	NW	NW	NW	WNW	1
WSW	WSW	W	WNW	WNW	WNW	NW	NW	WNW	WNW	WNW	WSW	SW	2
WNW	WNW	WNW	NW	NW	NW	WNW	SSW	SSW	SW	WSW	SSW	W	3
SW	SW	WSW	WSW	SW	SW	SW	SW	SSW	SSW	SSW	SSW	SSW	4
SSW	SSW	SSW	SSW	SW	SW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	5
SW	SW	SW	SW	WSW	WSW	WSW	WSW	WSW	SW	SW	SW	SW	6
SW	SW	SW	WSW	WSW	W	W	W	WSW	WSW	WSW	WSW	SW	7
SW	WSW	WSW	WSW	W	W	WNW	WNW	WNW	WNW	WNW	WNW	WSW	8
WSW	W SW	WSW	W	WNW	WNW	WNW	NW	NW	NW	NW	NW	WNW	9
WNW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	WNW	NW	10
WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WSW	WNW	11
WNW	W	W	W	W	W	WNW	WNW	WNW	WNW	WNW	WNW	W	12
W	W	W	W	W	W	WSW	WSW	WSW	WSW	WSW	WSW	W	13
W	W	W	W	W	W	W	W	W	WSW	W	W	W	14
W	W	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	15
WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	NW	NW	NW	WNW	16
NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	17
WNW	WNW	WNW	WNW	WNW	WNW	WNW	NW	NW	NW	NW	NNW	NW	18
WNW	WNW	WNW	WNW	WNW	NW	NW	WNW	WNW	WNW	NW	NNW	NW	19
WNW	WNW	WNW	WNW	WNW	WNW	WNW	W	W	W	WSW	WSW	NW	20
WNW	WNW	WNW	W	W	W	W	W	WSW	SW	SW	SW	W	21
WSW	W	W	W	W	WSW	WSW	W	WSW	WSW	WSW	WSW	WSW	22
W	W	W	W	WNW	WNW	WNW	WNW	W	W	W	WNW	W	23
WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	24
WNW	WNW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	25
WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	NW	NW	NW	NNW	NW	26
WNW	W	W	WNW	WNW	WNW	WNW	WNW	WNW	WNW	W	W	NW	27
WSW	WSW	W	WNW	W	WNW	WNW	WNW	WNW	WNW	WNW	WNW	W	28
WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	W	W	W	WNW	WNW	29
W	W	W	W	W	WNW	WNW	WNW	WNW	W	W	WSW	WNW	30
W	W	W	WNW	WNW	WNW	WSW	WSW	WSW	WSW	WSW	WSW	W	31
W	W	W	WNW	WNW	WNW	WNW	WNW	W	W	W	W	W	Mean direction

JUNE.

WSW	WSW	WSW	WSW	W	WSW	W	WSW	WSW	WSW	WSW	WSW	WSW	1
WSW	W	SW	SW	SW	SW	SW	SW	SSW	SSW	SSW	S	SW	2
SSW	SSW	SW	SSW	SSW	SSW	SSW	SSW	SSE	SSW	SSW	SSW	S	3
SSW	WSW	SW	SW	SSW	SSW	SSW	SSW	SSW	SSE	SSE	SSE	S	4
SSW	SSW	WSW	WNW	WSW	SSE	ESE	SE	NNW	S	SW	SW	S	5
S	WSW	WSW	WSW	SW	SSW	SE	E	SSE	NE	SSE	SSE	S	6
ENE	E	W	WSW	WSW	WSW	WSW	SW	SW	SW	SW	SW	SSW	7
WSW	SW	SW	SW	SW	WSW	WSW	WSW	SW	WSW	WSW	WSW	SW	8
WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	9
WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	10
WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	11
SW	SW	SW	SW	SW	SW	SW	SW	SW	SSW	SSW	SSW	SW	12
SSW	SW	SSW	SSW	SW	SW	SSW	SW	SW	SW	SW	SW	SSW	13
SSE	S	S	S	S	S	S	SSE	SSE	S	SSW	S	S	14
SSW	SSW	SSW	SSW	SSW	SSW	SW	WSW	W	N	NE	W	SSW	15
W	W	W	W	W	W	WNW	W	WSW	WSW	W	WNW	WSW	16
NW	WSW	S	SSW	SSE	SSE	SSW	SW	SE	SSE	SSE	SW	S	17
SSW	SSW	SSW	S	S	SSW	SSW	SSE	SSE	SSE	SSE	SSE	S	18
SSW	SSW	SSW	SW	SSW	SSW	SSW	SSW	SSW	SSW	S	SSE	S	19
S	S	SSW	SW	SW	SW	SW	SW	SSW	SSW	SSW	SSW	S	20
SSW	SW	WSW	SW	SW	SSW	S	SSE	S	WNW	ESE	WNW	S	21
WNW	NW	WNW	W	SW	SSW	SSW	S	S	SSE	SE	SE	SSW	22
SW	SW	WSW	WSW	WSW	WSW	SSW	SSW	SSW	SSW	SSW	SW	SSW	23
SE	SSW	SSW	SSW	SW	WSW	W	WSW	SW	SSW	S	SE	SW	24
SW	SW	SSW	SSW	SW	WSW	SW	WSW	SW	SW	SW	SSW	SSE	25
SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSE	SSE	SSW	26
SSW	SSW	SSW	SSW	SSW	S	S	SSE	SE	SE	SSE	SSE	S	27
SSW	SSW	SSW	SSW	SSW	SSW	SSE	SSE	SSE	SSE	SSE	SSE	SSE	28
S	SSW	SSW	SSW	SSW	SSW	S	S	SSE	SSE	SSE	S	SSE	29
S	SSE	S	SSW	SW	S	SSW	S	SSE	SSE	SSE	SSE	S	30
SSW	SW	SW	SW	SW	SSW	SSW	SSW	SSW	SSW	S	SSW	SSW	Mean direction

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

JULY.

Date.	Hours.											
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12
1	SSE	S	SSW	S	SSW	SSW	S	SSW	SSW	S	S	SW
2	S	S	S	SSW	S	SW	SSW	SSW	SW	SW	SW	SW
3	SW	W	SW	WSW	S	SSE	W	W	WSW	SW	WSW	S
4	SSW	SSW	SW	WSW	WSW	SSW	SSW	SSW	SW	SW	WSW	WSW
5	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	SW	WSW	WSW	WSW
6	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	WSW	WSW	WSW	WSW
7	WSW	SW	SSW	W	W	W	W	W	W	WSW	WSW	WSW
8	W	WSW	W	W	W	W	WSW	WSW	WSW	WSW	W	WSW
9	SW	SW	SSW	SW	WSW	WSW	WSW	W	WNW	WSW	WSW	WSW
10	ESE	SSE	SSW	SSW	SSW	SSW	SW	SW	WSW	WSW	WSW	WSW
11	SW	WSW	WSW	W	SW	WSW	WSW	WSW	W	W	WSW	WSW
12	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW
13	WSW	WSW	WSW	WSW	SW	SW	SW	WSW	WSW	WSW	WSW	WSW
14	WSW	WSW	WSW	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW
15	SW	WSW	WSW	WSW	WSW	W	WSW	WSW	WSW	WSW	WSW	WSW
16	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW
17	SSW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW
18	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW
19	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	WSW
20	WSW	WSW	WSW	WSW	WSW	W	WSW	WSW	WSW	WSW	WSW	WSW
21	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW
22	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	SW
23	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW
24	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW
25	SW	SW	SW	WSW	SW	WSW	WSW	WSW	SW	WSW	WSW	WSW
26	SW	SW	SSW	SW	SW	SW	SW	WSW	WSW	WSW	WSW	WSW
27	SW	WSW	WSW	WSW	SW	SW	SW	SW	SW	SW	SW	SW
28	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW
29	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW
30	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	SSW	SW	SW
31	WSW	WSW	SW	SW	WSW	WSW	WSW	W	WSW	WSW	WSW	WSW
Mean direction.	SW	SW	SW	WSW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW

AUGUST.

1	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	W	WSW
2	WSW	WSW	SSW	SW	W	W	WSW	WSW	WSW	WSW	WSW	WSW
3	WSW	WSW	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW
4	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW
5	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	WSW	SW
6	SW	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW
7	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	W	W
8	WSW	WSW	WSW	WSW	W	W	W	W	WSW	W	W	W
9	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	W	NSW	WSW
10	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW
11	W	W	W	W	W	W	W	W	W	W	W	W
12	W	W	W	W	W	W	W	W	W	W	W	W
13	WSW	W	W	W	WSW	WSW	WSW	W	W	W	WSW	WSW
14	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW
15	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	W	SW	SW
16	WSW	WSW	WSW	WSW	WSW	W	WSW	WSW	WNW	W	W	W
17	W	SW	WSW	WNW	W	W	WSW	WSW	WSW	WSW	W	WSW
18	W	W	W	WSW	WSW	WSW	W	W	W	W	W	W
19	WSW	WSW	WSW	W	W	W	W	WNW	W	W	W	W
20	WSW	WSW	W SW	WSW	W	W	W	W	W	WNW	W	W
21	WSW	WSW	WSW	WSW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW
22	WSW	WSW	W	W	W	WSW	W	W	WSW	W	WSW	WSW
23	WSW	WSW	WSW	WSW	W	W	WSW	WSW	WSW	W	WSW	WSW
24	WSW	WSW	W	W	W	W	W	W	WSW	WSW	W	W
25	WSW	WSW	W	WSW	WSW	WSW	W	W	WNW	W	W	WSW
26	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	W	WSW	WSW	WSW
27	WSW	WSW	WSW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW
28	WSW	WSW	WSW	WSW	WSW	W	W	WSW	W	WNW	WNW	W
29	WSW	WSW	WSW	WSW	WSW	WSW	WNW	WNW	WNW	WNW	W	W
30	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	NW	NW
31	W	W	W	WNW	W	W	WSW	WSW	W	WNW	WNW	WNW
Mean direction.	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	W	W	WSW

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

JULY.

Hours.												Mean direction.	Date.
12—13	13—14	14—15	15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24		
S	SSW	SSW	SSW	S	S	S	SSE	SSE	S	S	S	S	1
SW	SSW	SW	SW	SW	WSW	WSW	SW	W	W	WNW	WSW	SW	2
S	WSW	WSW	WSW	WSW	SW	SW	SSW	SSW	SSW	SSW	SW	SW	3
SW	SW	SW	SW	SW	SSW	SW	SW	SW	SSW	SW	SSW	SW	4
WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	5
WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	WSW	SW	WSW	WSW	6
WSW	WSW	WSW	WSW	WSW	WSW	WSW	W	W	WSW	W	W	WSW	7
WSW	WSW	WSW	WSW	WSW	W	W	WSW	WSW	WSW	WSW	SW	WSW	8
SW	SW	SW	WSW	WSW	WSW	WSW	SW	WNW	SW	SW	SSE	WSW	9
SW	WSW	WSW	WSW	W	SW	WSW	WSW	WSW	SW	SW	WSW	SW	10
WSW	WSW	WSW	WSW	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	11
WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	12
WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	SW	SW	WSW	WSW	13
WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	SW	WSW	14
WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	15
WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	SW	SSW	SSW	WSW	16
SW	SW	SW	SW	SW	SSW	SSW	SSW	SSW	SSW	SW	SW	SW	17
SW	SW	SW	SSW	SSW	SW	SW	SW	SW	WSW	WSW	WSW	SW	18
WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	19
WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	20
WSW	WSW	WSW	WSW	SW	SW	SW	SSW	SSW	SW	SW	WSW	WSW	21
SW	SW	SW	SW	SW	WSW	SW	SW	SW	SW	SW	WSW	WSW	22
WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	23
WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	SW	WSW	24
WSW	WSW	WSW	WSW	SW	SW	SW	SW	SSW	SSW	SSW	SSW	SW	25
WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	WSW	SW	SW	WSW	26
SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	27
WSW	WSW	WSW	WSW	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	28
WSW	W	WSW	WSW	W	WNW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	29
SW	SW	SW	SW	WSW	WSW	SW	WSW	WSW	WSW	WSW	WSW	WSW	30
WSW	WSW	WSW	WSW	SW	SSW	WSW	SSW	SW	SW	WSW	WSW	WSW	31
WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	SW	SW	SW	SW	WSW	Mean direction

AUGUST.

WSW	WSW	SW	WSW	WSW	WSW	WSW	W	WSW	WSW	SW	SW	WSW	1
WSW	WSW	W	W	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	2
WSW	WSW	WSW	WSW	W	W	WSW	SW	SW	SW	SW	SW	WSW	3
WSW	WSW	SW	WSW	SW	SW	WSW	SW	SW	SW	WSW	WSW	WSW	4
SW	WSW	WSW	WSW	WSW	WSW	SW	SW	SW	SW	SW	WSW	WSW	5
WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	6
WSW	WSW	W	W	W	W	W	W	WNW	WSW	WSW	WSW	WSW	7
W	W	W	W	W	W	W	WSW	WSW	WSW	WSW	WSW	W	8
WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	9
SW	WSW	WSW	W	WSW	WSW	WSW	W	W	W	W	W	WSW	10
W	W	WNW	WNW	WNW	WNW	WNW	WNW	W	W	W	W	W	11
W	W	W	SW	SW	SSW	SSW	SSW	SSW	WSW	WSW	WSW	W	12
WSW	W	WNW	WNW	WSW	W	W	WSW	WSW	SW	WSW	WSW	W	13
WSW	WSW	WNW	W	W	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	14
S	S	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	15
WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	W	WNW	W	WNW	W	16
W	W	WNW	WNW	WSW	WSW	WSW	WSW	WSW	WSW	W	W	W	17
W	W	W	W	W	W	W	W	W	W	WNW	W	W	18
W	W	W	W	W	W	W	W	W	WSW	WSW	WSW	W	19
W	W	W	W	W	W	W	WSW	WSW	WSW	WSW	WSW	W	20
WSW	WSW	WSW	WSW	WSW	SW	WSW	SW	WSW	SSW	W	W	WSW	21
W	W	W	W	W	W	W	WSW	WSW	WSW	WSW	WSW	W	22
WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	23
W	W	W	W	W	WSW	W	WSW	WSW	WSW	W	W	W	24
WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	25
WSW	WSW	SW	SW	SW	SW	WSW	WSW	SW	SW	SW	WSW	WSW	26
WSW	WSW	WSW	W	W	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	27
WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	W	WSW	WSW	WSW	W	28
W	W	W	W	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	W	29
WNW	WNW	WNW	NNW	NW	NW	WNW	WNW	WNW	W	W	W	WNW	30
NNW	WNW	NNW	NNW	NW	WNW	NW	WNW	WNW	W	W	W	WNW	31
WSW	W	W	W	W	WSW	W	WSW	WSW	WSW	WSW	WSW	WSW	Mean direction

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

SEPTEMBER.

Date.	Hours.											
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12
1	W	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW
2	WNW	WNW	WNW	NW	WNW	NW	WNW	WNW	WNW	WNW	WNW	WNW
3	NW	NW	NW	NW	NW	ENE	ESE	ESE	ESE	E	W	W
4	W	W	W	WNW	WNW	WNW	WNW	WNW	WNW	W	W	W
5	SW	SW	SSW	SW	SSE	SSE	S	SW	SW	ESE	WSW	WSW
6	WSW	SE	SE	E	NE	SE	SE	SE	SE	SE	SW	W
7	NNE	NE	NW	ESE	E	ENE	SE	ENE	ESE	SE	N	N
8	WNW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW
9	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW
10	E	ESE	ESE	ESE	SE	SE	SSE	SE	SSE	SE	ESE	SSE
11	SE	ESE	ESE	ESE	ESE	ESE	ESE	E	E	ESE	SE	SW
12	WNW	WNW	NW	NW	WNW	SE	ESE	ESE	ESE	SE	SE	WNW
13	NW	NW	NNE	NE	ENE	ESE	E	E	E	E	E	WNW
14	NNE	NNE	NNE	NNE	N	NNE	NNE	NNE	NNW	NNW	NNW	NW
15	NNW	NNW	N	N	N	N	NNE	N	NNW	NNW	NNW	NW
16	NNW	NNW	NNW	NNW	N	NE	NE	NE	NW	NNW	WNW	WNW
17	E	E	E	E	ESE	SE	SSE	SE	SW	SSW	WNW	SW
18	NNW	NNW	NNW	NNW	NNW	N	NNW	NNW	NNW	NNW	NNW	NW
19	NNW	N	N	NNE	NE	NE	NE	NNE	NE	NE	NE	NE
20	SE	E	ESE	ESE	SE	WSW	WSW	NE	ESE	SSE	SW	SW
21	ESE	ESE	SE	SSE	SSE	SSE	SSE	SSE	SSE	S	SSW	SW
22	NE	NE	ENE	NE	NE	NE	NE	ENE	ENE	ENE	NW	NW
23	NNW	NW	NNW	NNE	NNE	NNE	NE	NE	NE	NNW	NW	NW
24	NNW	NNW	NNW	N	N	N	N	NNW	NNW	NNW	NNW	NW
25	NNW	NNW	N	NNE	N	NE	NE	NE	NE	NE	NE	ENE
26	S	S	S	S	SSW	S	S	S	SSE	SSE	S	SSW
27	SSE	SE	ESE	SE	S	S	NW	ENE	ESE	SE	SSE	SSW
28	SSE	SSE	SE	ESE	ENE	ENE	NE	NE	NE	ENE	ENE	ENE
29	E	E	ESE	SE	SSE	SSE	SSE	SSE	SSE	SSE	S	S
30	SSE	SSE	SSE	SE	SE	SSE	SSE	S	SSE	S	SSW	SSW
Mean direction.	NW	NNW	N	NE	ENE	SE	SE	SE	SE	SE	W	W

OCTOBER.

1	SW	SSE	SE	SE	SSE	SE	SE	SE	ESE	SE	S	WSW
2	NNW	NNW	NNW	N	N	N	N	N	NE	NE	NE	NW
3	ENE	ENE	NNE	NNE	NE	SE	S	S	SSE	SSW	SW	SW
4	ENE	E	ESE	SE	NE	NE	ENE	ENE	E	ESE	SE	SSW
5	SE	SE	SSE	SE	ESE	SE	SSE	SSE	SSE	S	SW	SW
6	SW	SW	SW	SW	SW	SW	SSW	SSW	S	S	SSW	SSW
7	SSW	SSW	S	SSE	SE	SE	SE	SE	SE	SE	S	SSW
8	NW	NW	NNW	NNE	NNE	NNE	NNE	NE	ENE	ENE	NE	NW
9	NNE	NNE	NNE	NNE	NNE	NE	NNE	NE	NE	NNW	NNW	NW
10	NNW	NW	NW	NW	NW	NW	NE	E	WNW	N	N	N
11	WNW	WNW	WNW	NW	NW	N	NNE	N	N	NW	WNW	WNW
12	NW	NW	NW	NNE	NNE	N	NNE	N	E	E	NW	WNW
13	NNW	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNW	NNW	NW	NW
14	NNW	NNW	NNW	N	NNE	NNE	NNE	NNE	N	NE	ENE	WNW
15	NW	NW	NW	NW	NW	NNW	NE	NE	E	E	ESE	WSW
16	NNW	NNW	N	N	NNE	NNE	N	N	NW	NW	NW	NW
17	NNW	NNE	N	NE	ENE	ENE	ENE	E	SE	SE	SE	WSW
18	WNW	NW	NW	N	ESE	NSE	E	ESE	ESE	ESE	SE	WSW
19	WSW	WNW	NW	NW	ENE	ESE	ESE	ESE	ESE	E	SSE	SSW
20	NW	NNW	NNW	NNE	NNE	N	N	NNE	NE	ENE	ENE	SE
21	N	N	N	NNE	NNE	N	N	NE	NNE	NE	NE	ENE
22	NNW	NNW	NNW	N	N	NNE	NE	ENE	ENE	ENE	WNW	W
23	NNW	N	N	NNE	NNW	NNE	ENE	ENE	ENE	ENE	ENE	ENE
24	ENE	ENE	NE	NE	NE	NE	NE	ENE	ENE	ENE	ENE	ENE
25	NE	ENE	ENE	ENE	NNE	NE	ENE	ENE	ENE	NE	NE	NE
26	NNE	NE	NE	NE	NE	NE	ENE	NE	NE	NE	ENE	ENE
27	ENE	NE	ENE	NE	ENE	NE	ENE	ENE	ENE	NE	ENE	ESE
28	NE	ENE	NE	ENE	ENE	ENE	NE	ENE	NE	ENE	NE	ENE
29	NE	NE	NNE	NNE	NE	ENE	ENE	ENE	ENE	ENE	NE	NE
30	E	ENE	NE	ENE	NE	NNE	ENE	ENE	ENE	ENE	NE	ESE
31	NNE	NE	NE	NE	ENE	ENE	ENE	ENE	ENE	ENE	SE	E
Mean direction.	N	N	N	NNE	NE	NE	ENE	ENE	ENE	ENE	NNE	WNW

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

SEPTEMBER.

Hours.												Mean direction.	Date.
12—13	13—14	14—15	15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24		
WNW	WNW	WNW	WNW	WNW	WNW	NW	WNW	WNW	WNW	WNW	WNW	WNW	1
WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	NW	NNW	WNW	2
WNW	WNW	WNW	WNW	WNW	WNW	WNW	NW	WNW	WNW	WNW	WNW	WNW	3
WNW	WNW	WNW	WNW	W	W	W	W	WNW	W	WSW	WSW	W	4
WSW	WSW	WSW	W	W	W	WSW	WNW	WNW	W	WSW	W	WSW	5
S	S	WSW	W	W	W	W	W	WSW	W	W	WNW	SW	6
WSW	SW	WNW	W	W	W	W	W	W	W	W	W	W	7
WSW	W	W	W	W	NW	WSW	WNW	WSW	NW	W	WSW	W	8
W	W	W	W	W	WNW	WNW	SSW	ESE	N	N	NE	W	9
S	SSW	SSW	W	W	WNW	WNW	WNW	WNW	WNW	NW	NNW	S	10
WSW	WSW	W	WNW	WNW	W	WNW	WNW	WNW	WNW	WNW	WNW	SW	11
WNW	WNW	WNW	WNW	WNW	NW	NW	NNW	NW	NW	NW	NW	NW	12
WNW	NNW	WNW	NW	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	13
NW	NW	NW	NW	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	14
NW	NW	NW	NW	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	15
NW	NW	NW	NW	NW	NNW	NNW	NE	NE	ENE	NE	ENE	NNW	16
WNW	NW	NW	NW	NW	NW	NW	NNW	WNW	WNW	NNW	NNE	NW	17
NW	NW	NW	NNW	NNW	N	NNE	NNE	NE	NE	NNE	N	NNW	18
NE	WNW	NW	NW	NE	ENE	NE	ENE	ENE	ENE	E	ESE	NE	19
SW	SW	SW	SW	SSW	SSE	SSW	WNW	SE	NE	NE	NE	S	20
WSW	WSW	WSW	W	WNW	NW	W	WNW	NE	NE	NE	NE	SSW	21
NW	NW	NW	NW	NNW	NNW	NW	NNW	NNW	NNW	NNW	NNW	NNW	22
NW	NW	NW	NW	NW	NNW	NW	NNW	NNW	NNW	NNW	NNW	NNW	23
NW	NW	NW	NW	NNW	NNW	NNW	NW	NNW	NW	NNW	NNW	NNW	24
WNW	NW	NW	NW	NW	NW	NNW	NNW	NNW	NNW	NW	S	NNW	25
WSW	W	W	WNW	WNW	WNW	WSW	WSW	ENE	SE	SSW	SE	S	26
WSW	WSW	W	WSW	NNW	NNW	NNE	NE	SE	ESE	SSE	SE	SE	27
ENE	SW	WSW	WSW	NE	NE	ENE	NE	NNE	N	ENE	ESE	ENE	28
S	S	S	S	SSW	SSW	S	S	S	SSE	SSE	SSE	SSE	29
SSW	SW	SW	SW	SW	SW	WSW	SW	S	SW	NW	NNW	S	30
W	W	WNW	WNW	WNW	NW	NW	NW	NW	NW	NW	NW	WNW	Mean direction.

OCTOBER.

NW	WNW	WNW	NW	NW	NW	NNW	NW	NW	NW	Variable.	NNW	WNW	1
NW	NW	NW	NNW	NNE	N	N	NNW	N	ENE	N	ENE	N	2
WSW	WSW	WSW	WSW	WNW	WSW	WSW	WNW	NE	N	NNW	E	SW	3
SW	WSW	WSW	SW	WSW	SSW	SSW	S	SSE	SSW	SE	ESE	SSE	4
WSW	WSW	WSW	W	W	WNW	NW	WSW	SW	SW	SW	SSW	SSW	5
SSW	SW	SW	SW	SW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	6
SW	WSW	WSW	WSW	W	W	WSW	W	WNW	WNW	WNW	NW	SSW	7
NW	NW	NW	WNW	NW	NNW	NNW	NNW	WNW	NNW	NNW	N	NNW	8
NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NNW	9
N	N	NNW	NNW	NNW	NNW	NW	NW	NNW	NNE	NNE	WNW	NNW	10
NW	WNW	WNW	WNW	NW	NW	NW	NW	NW	NW	NW	NW	NW	11
NW	NW	NW	NW	NW	NW	NW	NW	NW	NNW	NNW	N	NNW	12
NW	NW	NW	NW	NW	NW	NW	NNW	NW	NNW	NNW	NNW	NNW	13
WNW	WNW	WNW	WNW	NW	NNW	NW	NW	NW	NW	NNW	NW	NW	14
W	WNW	WNW	WNW	WNW	NW	NNW	NNW	NW	NW	NNW	NNW	NW	15
NW	NW	NW	NNW	NNW	NNW	NNW	N	N	N	NNW	N	NNW	16
W	WNW	NW	WNW	WNW	WNW	WNW	W	WSW	SW	SW	WSW	WNW	17
WSW	W	W	W	WNW	WNW	WNW	NW	NW	WSW	SW	SSW	W	18
W	WNW	NW	NW	NW	NW	NNW	NNW	NNW	N	NNW	NW	NW	19
WNW	NW	NW	NW	NW	NNW	NNW	NNW	N	NNE	NNE	NE	NNW	20
NW	NW	NW	NW	NW	NW	NNW	NNW	N	N	NE	NE	N	21
WNW	NW	NW	NW	WNW	NW	NW	NW	NW	NNW	NNW	NNW	NNW	22
WNW	NW	NW	NW	NW	NW	NNW	NNW	N	N	NE	ENE	N	23
ENE	WNW	NW	NW	NNW	NNW	NNW	NNW	N	NE	ENE	ENE	NNE	24
NW	NW	NW	NW	NW	NW	NNW	NNW	NNW	NNW	NE	NE	NNE	25
W	WNW	WNW	NW	NW	NW	NNW	NNW	N	NE	NE	ENE	NNE	26
WSW	W	W	W	WNW	WNW	NNW	NW	NNW	NNE	NE	NE	NNE	27
ESE	W	W	WNW	WNW	WNW	NNW	NNW	N	N	NNE	ENE	NNE	28
WNW	WNW	WNW	WNW	NW	NW	NNW	NNW	N	NNE	NNE	NE	NNE	29
ESE	W	WNW	WNW	NW	NNW	NNW	NNW	N	NNE	NNE	NNE	NNE	30
W	W	WNW	NW	NW	NNW	NNW	NNW	NNW	N	NNE	N	N	31
WNW	WNW	WNW	WNW	NW	NW	NW	NW	NNW	NNW	N	N	NNW	Mean direction.

DIRECTION OF WIND, 1929.

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

NOVEMBER.

Date.	Hours.											
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12
1	NNE	NE	NE	NE	NE	NE	ENE	ENE	E	ENE	ESE	ESE
2	ENE	ENE	NE	ENE	ENE	ENE	NE	ENE	ENE	ENE	ENE	ENE
3	SE	ESE	ESE	NE	ENE	ENE	ENE	E	ENE	ENE	E	E
4	NNE	E	NE	NE	ENE	ENE	ENE	ENE	ENE	ENE	NE	NE
5	E	NE	NE	ENE	NE	ENE	ENE	ENE	ENE	ENE	NE	NNE
6	NNE	NE	NE	NE	NNE	NNE	NE	NE	NE	NE	NE	NE
7	NNE	NNE	NE	NE	ENE	ESE	ESE	ESE	NE	NE	E	W
8	WNW	WSW	W	SE	ESE	ESE	ESE	ESE	ESE	ESE	SSE	WSW
9	ESE	ESE	ESE	ESE	ESE	E	E	ENE	NE	NE	NE	W
10	NNW	N	N	NNE	NNE	NNE	NNE	NE	NE	NE	ENE	ENE
11	NE	NE	NE	NE	NE	ENE	ESE	ESE	ESE	ESE	ESE	S
12	SE	ENE	NNE	NNE	NE	NE	N	NNE	NE	NE	ENE	ENE
13	NE	NE	NNE	NNE	NNE	NE	NE	E	ENE	E	ESE	SE
14	NNE	ENE	ENE	NE	NE	NE	ENE	ENE	ESE	ESE	ESE	ESE
15	ENE	E	ENE	NE	NE	ENE	E	SE	E	E	NE	E
16	NW	NNW	SE	SE	ESE	ESE	ESE	ESE	ESE	ENE	E	ESE
17	ENE	NE	ENE	NE	NE	E	E	ESE	ESE	ESE	SE	SSW
18	NNE	NE	ENE	NE	NE	NE	NE	ENE	ENE	ENE	ENE	WNW
19	NE	ENE	NE	NE	NNE	NNE	NE	ENE	ENE	NE	ENE	ENE
20	NNE	NNE	NNE	NE	NE	NNE	NNE	NE	NE	ENE	ENE	NE
21	ENE	ENE	NNE	N	N	NE	NE	NE	NE	ENE	ENE	ENE
22	NE	NNE	ENE	ENE	NE	ENE	NE	NE	NE	NE	ENE	ENE
23	NE	NNE	ENE	ENE	ENE	E	E	ENE	ENE	ENE	NE	NE
24	NE	ENE	NE	NE	NNE	NE	ENE	ENE	NE	NE	NE	NE
25	NE	ENE	NE	NE	NE	NE	ENE	ENE	ENE	ENE	NE	NE
26	NE	NE	NE	NE	NE	ENE	ENE	NNE	ENE	ENE	NE	NE
27	NE	ENE	NE	NE	NE	NE	NE	NE	NE	NE	ENE	ENE
28	NE	NE	ENE	ENE	E	ENE	ENE	ENE	ENE	ENE	ENE	ENE
29	ENE	NE	ENE	ENE	ENE	ENE	ENE	ENE	NE	NE	NE	NE
30	ENE	NNE	NNE	NE	ENE	ENE	ENE	NE	NE	ENE	NE	NEN
Mean direction.	NE	NE	NE	NE	NE	ENE	ENE	ENE	ENE	ENE	ENE	ENE

DECEMBER.

1	NE	NNE	NE	NE	NE	ENE	ENE	ENE	ENE	NE	NE	NE
2	NNE	NE	ENE	NNE	NE	ENE	NE	NE	NE	NE	NE	NW
3	NNE	NE	NE	NE	NE	NE	NE	ENE	ENE	ENE	E	NE
4	N	NE	N	NE	ENE	E	ESE	ESE	ENE	ENE	ENE	NE
5	NE	ENE	NE	NE	NE	NNE	NE	NE	NE	NE	ENE	ENE
6	N	E	E	N	NNE	N	N	NNE	NE	NNE	NE	ENE
7	NNE	NNE	NE	NNE	NNE	NE	NNE	NE	NE	NE	ENE	NE
8	ENE	ENE	E	NE	NE	NE	ENE	ENE	ENE	NE	E	ENE
9	ENE	ENE	ENE	NNE	NNE	ENE	ENE	ESE	ESE	ESE	ESE	ESE
10	N	NNE	NNE	NNE	NNE	NE	ENE	E	ESE	E	ENE	E
11	NE	NE	NE	NE	NE	NE	E	E	ENE	ENE	ENE	SE
12	ENE	ENE	NE	NE	ENE	NE	ENE	E	NE	NE	ENE	ENE
13	ENE	E	N	N	NNE	NNE	NE	NNE	ENE	ENE	ENE	WNW
14	NNE	N	NNE	NNE	N	N	NNE	N	NE	NE	NE	NE
15	N	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NE	NE	NE	ENE
16	N	NNE	ENE	NNE	NNE	N	NNE	NE	N	NNW	NE	ENE
17	N	NNE	NNE	NNE	N	NNE	N	N	N	NNW	ENE	E
18	N	N	N	N	NNE	NNE	NNE	NNE	NE	NE	NE	ESE
19	NNE	NE	ESE	ESE	ESE	ESE	ESE	ESE	SE	S	S	SSW
20	NNE	NNE	NNE	NNE	NNE	N	NNW	N	N	N	N	N
21	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	ENE	ENE
22	NNE	ENE	ENE	E	ENE	ENE	ENE	ESE	E	E	ESE	ESE
23	N	NNW	NNW	NNE	NNE	NE	ENE	ESE	ESE	ESE	ESE	WNW
24	NNE	NE	NE	NE	NE	NE	ENE	NNE	NE	NE	ENE	NNW
25	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	N	N
26	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NE	ENE	ENE	NE
27	NNE	NE	NE	NE	NNE	NNE	NE	ENE	NE	NE	NE	NE
28	NNE	NNE	ENE	ENE	NE	NE	ENE	NE	NE	ENE	ENE	ENE
29	NNE	NE	NE	NE	NE	NE	NE	NE	NE	ENE	ENE	ENE
30	N	ENE	NE	NNE	NE	ENE	ENE	E	E	ESE	ENE	ENE
31	ENE	ESE	ESE	ENE	ENE	ENE	ENE	ENE	NNE	ENE	ENE	NNW
Mean direction.	NNE	NE	NE	NE	NE	NE	NE	ENE	NE	NE	ENE	NE

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

NOVEMBER.

Hours.												Mean direction.	Date.
12—13	13—14	14—15	15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24		
SE	..	WSW	W	WNW	WNW	NW	NNW	NNW	NNE	NNE	ENE	NNE	1
ENE	WNW	WNW	WNW	WNW	WNW	WNW	NNW	N	NE	NNE	SE	NE	2
ESE	S	NW	NW	NW	NW	NNW	NNW	NNW	NNE	N	N	NE	3
E	W	WNW	WNW	WNW	NW	NW	NNW	NNW	N	NNE	NNE	NNE	4
NNE	NE	NNE	WNW	NNW	NNW	NNW	N	N	N	NE	NNE	NNE	5
NNE	WNW	WNW	NW	NW	ENE	NE	NE	ENE	S	SSE	WNW	NE	6
W	WNW	WNW	WNW	WNW	NW	NW	NW	WNW	WNW	WNW	WNW	NW	7
W	WSW	WSW	WSW	WSW	WSW	WSW	WNW	WNW	N	ESE	SE	SSW	8
WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	NW	NW	NNW	NNW	NNW	9
SSE	WSW	WSW	WSW	WSW	WSW	WSW	NW	NW	NNW	N	NNE	NNW	10
WSW	WSW	W	WNW	WNW	WNW	NW	N	NE	NE	NE	ESE	NE	11
ENE	WNW	WNW	NW	NW	NNW	NNW	N	N	N	N	NE	N	12
SW	WNW	WNW	WNW	WNW	WNW	NW	NNW	NNW	NNW	NNE	NNE	NNE	13
ESE	SE	SSW	SSW	WNW	WNW	WNW	WNW	NW	NNW	NNW	N	NE	14
SE	WSW	WSW	WSW	NW	NW	NNW	NNW	NW	NW	W	WNW	NE	15
WNW	WNW	WNW	WNW	NW	NW	NNW	NNW	NNW	NNE	NNE	NNE	N	16
SSW	WSW	WSW	WSW	WSW	WSW	WSW	WNW	NW	NNE	NE	NNE	SE	17
NW	NW	NW	NW	NW	NNW	NNW	NNW	N	ENE	ESE	NE	N	18
SSE	WNW	NW	NW	NNW	NNW	NNW	NNW	NNW	ENE	E	NE	NNE	19
WNW	WNW	WNW	NW	NW	NW	NNW	NNW	N	N	NE	ENE	N	20
WNW	WNW	WNW	NW	NW	NNW	NNW	NNW	NNE	NNE	ENE	NE	N	21
ENE	WNW	WNW	WNW	WNW	NW	NW	NNW	NNE	NNE	ENE	NE	NNE	22
ENE	NE	NE	WNW	NW	NNW	NNW	NNW	N	N	N	N	NNE	23
NE	NNE	NE	NW	NW	NW	NNW	NNW	NNW	NNW	NNE	NNE	NNE	24
NE	NE	WNW	WNW	WNW	NNW	NNW	NNW	NNW	N	N	NNE	NNE	25
NE	ENE	WNW	WNW	NW	NW	NNW	NNW	NNW	N	N	ENE	NNE	26
ENE	ENE	WNW	WNW	NW	NW	NNW	NNW	NNW	NNE	N	NNE	NNE	27
NE	NE	NW	NW	NW	NW	NNW	NNW	NNW	N	NNE	ENE	NNE	28
NE	SW	WSW	W	W	WNW	NW	NNW	N	NNE	NNE	ENE	NE	29
SE	WNW	WNW	NW	NW	NNW	NNW	N	N	N	NNE	ENE	NNE	30
NE	WNW	WNW	WNW	WNW	NW	NW	NNW	NNW	N	NNE	NNE	NNE	Mean direction.

DECEMBER.

NE	NW	WNW	WNW	NW	NNW	NNW	NNW	NNW	N	NE	NE	NNE	1
NW	WNW	NW	NNW	NNW	NNW	NNW	NNW	N	NNE	N	NNE	N	2
WSW	WSW	W	WSW	WSW	NW	NNW	N	N	NNE	NNE	NE	NNE	3
WSW	WSW	WSW	W	WNW	NNW	NNW	NNW	N	NE	NE	NE	N	4
WNW	WNW	WNW	WNW	NW	NNW	NNW	NNW	NNW	N	N	NNW	N	5
NW	NNW	NW	NNW	NNW	NNW	NNW	NNW	N	NNE	NE	NE	N	6
WNW	NW	NW	NNW	NNW	NNW	NNW	NNW	N	NNE	ENE	E	N	7
WSW	WSW	W	WSW	WSW	W	WNW	WNW	ESE	N	NNE	NNE	NE	8
SSE	WSW	WSW	W	W	WNW	WNW	NNW	NNE	NNE	NE	NNE	ENE	9
W	WNW	W	W	WNW	NW	NNW	NNW	NNW	N	NNE	E	N	10
WNW	WNW	WNW	WNW	WNW	NW	NW	NNW	NNE	NE	NNE	ENE	NNE	11
ENE	W	WNW	WNW	WNW	NW	NNW	NNW	NNW	N	N	N	N	12
NW	NW	NW	NW	NNW	NNW	NNW	NNW	NNW	N	N	N	N	13
WNW	NW	NW	NW	NNW	NNW	NNW	NNW	NNW	N	N	N	N	14
WNW	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	N	N	N	N	15
W	WNW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNE	N	N	16
NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	N	N	N	17
SSW	WSW	W	WNW	NW	NNW	NNW	NNW	N	NNE	NNE	NNE	N	18
SW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	W	SW	NNW	NNE	S	19
N	N	N	NNW	N	N	N	NNE	NNE	NNE	NNE	NNE	N	20
N	N	N	N	N	N	N	N	N	N	N	N	NNE	21
SSE	W	WNW	NW	NW	NW	NNW	NNW	N	NNE	NNE	NNE	NE	22
NNW	NNW	NNW	NNW	NNW	NNW	N	N	NNW	NNW	NE	NNE	N	23
NNW	N	NNW	NNW	N	N	N	N	N	NNE	NNE	NNE	NNE	24
N	N	N	N	N	N	N	N	N	NNE	NNE	NNE	N	25
NE	NNW	NNW	N	N	N	N	N	N	N	N	N	NNE	26
NNW	NNW	NNW	NNW	NNW	N	N	N	N	N	N	N	N	27
NW	NW	NW	NNW	N	N	N	N	N	NNE	NNE	NNE	NNE	28
NW	NNW	NNW	NNW	NNW	N	N	N	N	NE	N	N	NNE	29
NW	NW	NW	NW	NW	NW	NNW	N	N	N	N	N	NNE	30
NNW	NNW	NNW	N	N	N	N	N	N	N	N	NNE	NNE	31
NW	NW	NW	NW	NNW	NNW	NNW	NNW	N	N	NNE	NNE	N	Mean direction.

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

JANUARY. (IN DEGREES FAHRENHEIT.)

Date.	Hours.														
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13	13—14	14—15
1	65·4	64·8	64·6	64·2	64·0	64·0	64·6	66·4	69·0	71·2	74·5	77·1	77·8	77·5	76·9
2	68·0	66·9	67·3	68·0	69·5	69·5	69·5	69·8	70·9	72·8	76·0	77·8	81·9	83·7	81·1
3	70·5	69·8	69·4	70·1	69·9	69·6	69·1	70·0	71·4	73·4	76·4	79·0	81·3	79·6	79·6
4	70·8	70·5	69·5	69·3	70·4	70·5	70·0	70·0	71·5	74·0	76·5	78·9	80·5	80·4	80·8
5	71·0	70·8	70·0	69·3	70·7	70·6	70·5	70·5	72·0	73·9	77·0	79·4	82·3	84·9	85·9
6	70·5	70·5	70·4	70·1	69·9	69·6	69·6	69·8	71·5	73·7	76·8	79·4	83·5	85·1	86·9
7	70·5	70·1	69·9	69·7	69·5	69·3	69·3	70·0	72·1	74·0	77·2	80·1	83·4	86·4	87·0
8	72·0	70·5	70·0	70·0	70·0	70·4	70·3	71·0	72·5	74·5	77·6	81·2	84·2	86·3	84·7
9	75·6	74·9	74·5	74·3	73·1	72·4	73·4	74·1	75·4	77·3	79·4	81·1	82·8	83·0	83·3
10	77·0	76·4	75·0	74·5	74·3	74·3	73·6	73·6	75·7	76·9	78·9	80·4	81·1	80·9	81·5
11	74·5	73·6	73·1	73·3	72·6	72·2	71·7	72·5	75·1	76·8	79·7	81·7	81·9	81·8	81·4
12	73·0	72·4	72·6	73·5	73·1	72·0	70·6	71·4	74·0	75·9	78·6	81·0	81·9	81·9	81·8
13	73·9	73·5	72·9	72·9	72·5	72·7	72·5	72·9	74·9	76·9	80·0	80·7	81·3	81·1	81·3
14	73·5	73·4	72·7	71·5	70·8	70·4	70·2	71·4	74·1	76·7	79 0	79·6	80·3	80·4	80·5
15	72·5	71·8	71·0	70·0	69·4	69·3	69·5	70·3	71·4	72·7	74·9	76·5	77·4	78·0	78·3
16	70·9	70·1	69·1	68·5	68·4	68·8	69·3	69·6	70·5	72·1	74·9	76·4	77·1	78·0	78·4
17	71·0	71·0	71·5	71·5	71·4	71·1	70·8	71·1	72·1	73·4	75·5	76·6	77·6	78·6	78·5
18	71·5	71·1	69·5	69·0	68·9	69·3	69·3	69·0	70·6	72·6	74·9	76·3	77·9	78·9	79·4
19	68·9	67·9	67·4	67·0	66·8	66·3	66·3	66·9	69·0	72·1	75·1	76·8	77·5	78·4	78·5
20	69·4	68·4	68·3	68·6	68·4	68·1	67·3	66·9	69·1	72·0	73·6	75·2	77·5	78·5	78·3
21	69·1	67·6	66·0	66·3	66·4	66·4	66·0	66·4	68·8	71·9	75·1	76·6	77·5	78·3	78·0
22	67·9	67·4	65·9	66·0	66·0	65·8	65·4	65·8	68·3	70·0	72·5	74·9	77·5	77·5	78·4
23	69·9	70·3	69·8	68·4	67·5	67·2	68·3	68·9	70·1	71·9	74·0	76·8	80·5	81·0	81·1
24	72·1	72·3	71·5	70·6	70·0	69·5	69·4	69·5	71·0	72·5	75·0	77 0	79·4	80·2	81·3
25	70·9	71·4	71·4	70·6	69·9	69·9	69·8	70·3	71·3	72·9	76·1	78·2	78·9	79·3	78·9
26	72·3	71·8	72·0	71·5	71·3	70·9	70·5	70·9	72·2	73·3	75·3	76·5	78·0	79·5	79·0
27	72·6	72·9	73·1	73·4	73·3	73·0	72·5	72·5	72·7	71·9	72·4	74·8	75·6	75·6	75·4
28	67·6	67·0	66·7	66·5	66·0	65·1	65·5	66·6	68·5	70·4	72·7	73·9	75·0	75·4	75·4
29	67·8	66·7	66·0	66·9	65·8	65·0	64·7	65·1	67·0	69·0	72·5	74·0	75·0	75·5	75·6
30	66·5	66·0	66·9	65·6	64·5	63·6	62·8	62·8	64·6	66·0	69·0	71·9	73·4	73·1	72·8
31	62·1	62·3	61·0	60·0	58·1	57·5	**56·0**	56·6	59·0	61·9	63·6	64·7	66·4	67·6	68·8
Mean . .	70·6	70·1	69·6	69·4	69·1	68·8	**68·7**	69·1	70·8	72·7	75·3	77·2	78·9	**79·6**	79·6
Variation .	−2·7	−3·2	−3·7	−3·9	−4·2	−4·5	**−4·6**	−4·2	−2·5	−0.6	+2·0	+3·9	+5·6	**+6·3**	+6.3

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1	57·9	57·1	56·5	56·6	56·3	**55·2**	55·2	57·6	61·1	63·8	67·1	70·3	73·5	75·1	73·4
2	65·4	65·8	66·1	65·6	65·5	65·1	65·1	65·8	67·2	69·6	72·2	75·8	79·2	81·3	82·4
3	68·5	67·4	67·4	67·6	67·6	67·8	67·0	67·8	70·5	72·8	74·3	76·3	77·9	77·6	77·4
4	69·6	68·6	68·0	67·3	67·1	68.0	67.1	66·9	69·5	72·9	74·0	74·5	75·0	76·0	75·6
5	69·2	68·7	68·0	69·0	68·4	67·4	67·3	68·5	71·0	72·7	75·7	78·7	78·9	79·5	80·2
6	70·8	70·1	69·8	70·4	70·1	69·6	69·4	70·4	72·1	74·1	77·1	77·4	78·5	79·5	79·7
7	72·9	72·6	72·1	71·7	71·7	71·2	70·5	71·1	72·5	74·5	76·9	79·2	79·9	80·6	80·3
8	71·8	71·5	71·1	70·6	70·6	70·2	70·0	70·5	72·0	73·9	75·9	**76·9**	77·6	78·3	78·5
9	72·0	71·2	70·5	69·9	69·9	69·5	69·2	69·6	71·1	72·0	73·9	75·5	76·9	78·0	78·9
10	70·8	71·2	70·9	69·6	69·1	69·2	68·4	69·1	71·1	73·1	75·2	76·8	78·5	78·7	78·8
11	72·9	71·9	70·7	70·2	69·3	68·8	67·8	68·5	71·5	73·9	76·7	78·0	78·5	78·5	78·2
12	69·4	69·2	68·7	70·0	69·5	69·0	68·9	69·8	71·8	74·0	77·1	81·1	82·9	83·4	83·6
13	74·6	74·0	73·5	72·0	71·9	71·2	70·6	71·0	73·0	75·1	77·1	78·1	78.9	78·9	79·4
14	73·0	72·5	72·2	71·3	70·5	69·8	68·9	69·1	71·2	74·0	75·7	77·4	79·2	79·7	79·5
15	71·3	70·5	70·7	71·8	70·9	71·4	70·5	70·6	73·3	76·9	81.6	82·3	80·7	81·3	80·9
16	74·4	74·1	73·2	72·6	72·4	72·8	72.3	73·5	75·5	78·1	81·2	82·2	81·2	81·5	81·1
17	73·6	73·6	74·2	73·7	72·6	72·0	72·5	73·3	75·8	78·1	80·8	82·5	81·2	80·5	81·0
18	71·8	71·6	72·1	71·7	70·7	69·2	69·5	71·1	73·3	75·2	77·5	79·2	80·5	80·6	80·6
19	72·4	71·9	72·8	72·5	71·6	71·4	71·5	71·9	74·1	76·3	78·9	80·5	80·4	80·1	80·4
20	71·8	70·5	70·1	70·7	69·8	68·7	67·6	69·4	73·1	74·8	76·9	78·6	79·4	80·2	80·9
21	72·7	72·4	72·3	71·7	71·6	71·2	70·5	71·2	74·0	76·9	79·2	79·9	80·9	81·7	82·2
22	73·9	73·2	73·1	72·9	72·4	71·9	71·4	72·4	74·8	76·9	78·6	79·7	80·7	80·9	80·6
23	74·2	74·0	74·0	73·6	73·1	72·5	71·2	72·3	75·9	77·3	79·3	79·7	80·3	80·6	80·1
24	74·6	74·7	74·3	73·3	72·6	72·4	71·8	72·5	75·5	77·5	80·7	84·2	84·7	84·5	84·4
25	75·1	74·1	74·3	73·9	73·1	71·8	71·1	73·5	77·9	80·4	85·1	**89·6**	87·6	88·1	87·6
26	77·6	77·5	77·4	76·0	74·0	73·3	73·9	74·1	76·9	78·1	80·3	82·3	83·7	83·6	84·2
27	77·3	77·0	76·7	75·9	75·1	74·9	74·6	75·3	76·8	77·2	79·1	80·7	81·7	82·7	83·3
28	74·4	74·2	74 2	74·4	73·4	72.9	72·2	73·7	76·4	78·4	80·3	81·8	81·9	81·8	81·9
Mean . .	71·9	71.5	71·2	70·9	70·4	69·9	**69·5**	70·4	72·8	74·9	77·4	79·3	80·0	**80·5**	80·5
Variation .	−2·9	−3·3	−3·6	−3·9	−4·4	−4·9	**−5·3**	−4·4	−2·0	+0·1	+2·6	+4·5	+5·2	+5·7	+5·7

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

JANUARY. (IN DEGREES FAHRENHEIT.)

Hours.									Mean.	Maximum.		Minimum.		Date.
15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24		Time.	Mag.	Time.	Mag.	
										H. M.		H. M.		
76·6	76·0	74·5	73·5	73·1	71·9	70·6	69·8	69·3	70·7	12 10	78·6	3 55	63·6	1
80·0	78·5	76·2	74·9	74·3	73·4	72·6	71·5	70·5	73·5	13 20	84·3	2 10	66·6	2
79·8	78·9	77·1	75·4	74·6	74·2	73·5	71·5	70·5	73·9	12 35	82·0	6 38	68·9	3
79·4	78·4	77·0	75·6	75·3	74·8	74·0	72·9	72·0	74·3	14 5	81·6	3 32	69.2	4
82·8	79·7	77·6	76·1	75·5	74·8	73·9	72·8	71·3	75·1	14 30	86·3	3 40	69·1	5
87·1	82·1	78·3	76·3	75·2	74·5	74·1	72·6	71·1	75·4	15 35	87·5	6 50	69·4	6
83·6	80·6	78·3	76·5	75·5	75·1	74·7	73·9	73·0	75·4	14 30	**88·0**	5 10	69·3	7
83·4	80·5	78·0	76·8	76·8	76·6	76·8	76·9	76·3	76·1	13 55	86·7	3 54	69·6	8
82·4	81·0	79·3	78·1	78·0	77·7	77·4	77·4	77·3	**77·6**	14 28	83·6	5 50	72·3	9
80·8	79·5	78·4	78·0	77·8	77·7	77·0	75·5	75·3	77·3	12 27	81·6	7 0	73·4	10
80·8	79·2	78·0	76·9	76·5	76·0	75·1	74·5	73·7	76·4	13 24	82·1	6 38	71·5	11
81·6	80·0	79·0	77·0	76·5	76·1	75·6	75·1	74·8	76·2	12 40	82·7	6 32	70·3	12
80·7	79·5	78·3	77·0	76·5	76·1	75·6	75·0	74·1	76.4	12 38	81·5	6 50	72·1	13
80·2	78·9	77·5	76·1	75·5	74·9	74·4	72·4	72·4	75·3	13 8	81·0	6 45	70·0	14
78·2	77·0	75·4	74·2	73·7	73·0	72·3	71·3	70·5	73·3	15 10	78·8	4 24	69·0	15
78·1	77·2	76·0	75·2	74·4	73·0	72·5	72·0	71·6	73·0	14 30	78·6	4 18	68·3	16
78·5	77·5	76·5	75·3	75·0	74·4	74·3	73·3	72·3	74·1	13 23	78·9	6 50	70·4	17
79·2	77·6	76·3	75·0	74·4	73·6	72·7	71·2	70·1	73·3	14 22	79·6	4 10	68·5	18
78·0	76·5	74·9	74·0	73·4	72·9	72·3	71·0	70·6	72·0	14 8	79·0	6 2	65·9	19
78·0	76·7	75·1	74·5	74.3	73·3	72·0	70·5	70·8	72·3	13 20	79·4	7 20	66·6	20
77·0	76·1	74·3	73·3	73·0	72·5	71·0	69·5	68·1	71·5	13 48	78·6	6 10	65·9	21
78·0	77·4	76·0	74·6	73·9	73·0	72·1	70·9	70·0	71·5	14 45	78·6	7 12	65·2	22
81·4	79·9	77·7	76·3	75·4	74·5	73·2	72·9	71·8	73.7	14 5	81·6	5 28	67·0	23
79·9	78·6	77·1	76·0	75·3	74·3	73·5	72·9	72·0	74·2	14 30	81·5	7 15	69·3	24
78·2	77·1	76·0	74·8	74·1	73·9	73·7	73·3	73·0	73·9	13 10	79·6	6 55	69·6	25
78·3	77·5	76·4	74·9	73·9	73·3	72·9	72·5	72·6	74·1	13 38	79·6	6 52	70·4	26
75·0	74·0	72·4	71·2	70·6	70·1	69·8	68·6	68·2	72·6	13 30	75·8	23 56	68·0	27
75·7	74·9	73·3	71·9	71·5	71·5	70·7	69·5	68·5	70·4	14 18	76·2	6 15	64·5	28
75·5	74·1	73·0	72·0	71·4	70·0	69·5	68·4	67·4	69·9	14 40	75·8	6 48	64·3	29
73·0	72·0	70·7	69·4	68·5	66·5	65·1	64·0	62·6	67·6	12 40	73·8	23 55	62·4	30
68·1	66·9	65·9	65·4	64·9	62·6	61·4	60·3	59·5	**62·5**	14 50	68·9	6 55	**55·5**	31
79·0	77·5	76·0	74·7	74·2	73·4	72·7	71·7	71·0	73·3					Mean.
+5·7	+4·2	+2·7	+1·4	+0·9	+0·1	−0·6	−1·6	−2·3						Variation.

FEBRUARY.

73·0	72·5	71·2	70·1	69·3	67·9	65·9	64·7	63·9	**64·8**	13 24	76·6	5 48	**54·8**	1
79·5	77·0	74·1	72·1	71·5	71·1	70·6	69·8	68·6	71·1	14 47	82·7	0 0	64·5	2
77·0	76·5	74·6	72·7	72·2	71·9	71·4	70·5	70·0	71·9	12 37	78·5	6 52	66·4	3
75·5	74·4	73·0	72·4	72·1	71·8	71·1	69·8	69·0	71·2	13 48	76·5	4 2	66·6	4
79·0	76·6	74·3	73·9	73·6	73·2	72·8	72·0	71·1	72·9	14 35	80·5	5 48	67·2	5
79·7	79·0	77·6	76·4	75·5	74·7	74·7	73·9	73·1	74·3	14 0	80·2	6 10	69·1	6
80·1	79·2	77·8	76·2	75·6	74·2	73·0	72·4	72·3	74·9	13 42	81·0	6 45	70·5	7
79·0	78·3	76·5	74·9	74·3	73·5	72·4	71·7	71·9	73·8	15 17	79·1	6 30	69·9	8
78·6	77·8	76·0	74·7	74·2	73·5	72·0	71·2	70·4	73·2	14 55	79·1	6 0	68·9	9
78·5	78·0	76·9	75·9	75·9	75·3	74·2	72·6	72·3	73·8	10 45	79·1	6 47	68·2	10
77·8	76·9	75·5	74·4	74·2	73·7	72·4	71·4	70·8	73·4	12 40	79·2	6 45	67·4	11
82·5	81·1	79·3	77·6	76·5	75·0	74·1	74·1	74·8	75·1	14 28	84·0	6 17	68·4	12
78·9	77·6	75·9	74·9	74·6	74·4	73·3	72·5	72·5	74·7	14 36	79·7	7 0	70·5	13
78·7	77·9	76·0	74·8	74·3	74·0	73·4	72·5	72·1	74·1	13 28	79·9	6 55	68·8	14
80·6	79·8	78·2	76·7	76·0	75·6	75·4	74·5	74·2	75·7	10 55	83·1	2 12	69·9	15
81·2	80·2	79·4	77·7	76·8	76·3	75·8	74·2	73·5	76·7	11 14	82·9	6 45	71·9	16
80·1	79·1	77·5	76·6	76·2	75·8	74·8	73·4	72·2	76·3	11 45	83·0	5 40	72·0	17
80·5	80·0	78·9	77·7	77·1	76·5	75·9	74·5	73·2	75·4	13 20	80·9	5 35	69·0	18
79·8	79·7	78·2	76·9	76·3	75·5	74·0	72·4	71·8	75·5	11 43	81·2	6 10	71·1	19
81·8	80·5	78·3	76·8	76·2	75·6	75·1	73·8	72·6	74·7	15 15	82·1	6 10	67·6	20
81·9	81·0	79·1	77·3	76·6	76·2	75·9	75·3	74·1	76·1	14 12	82·5	6 55	70·4	21
80·5	79·5	78·2	76.9	76·2	75·9	75·5	75·0	74·5	76·1	13 22	81·6	6 15	71·1	22
79.4	78·9	77·8	76.9	76·6	76·2	75·5	74·9	74·8	76·2	12 40	81·0	6 50	70·8	23
83·1	81·1	79·6	78·0	77·2	77·2	77·0	76·5	76·0	77·6	14 10	84·8	6 43	71·5	24
85·8	83·3	81·7	80·2	79·5	78·7	77·2	77·9	77·7	**79·4**	11 55	**91·2**	6 40	70·8	25
84·3	83·2	81·5	79·7	79·4	79·0	77·9	77·2	76·8	78·8	15 26	84·6	6 54	73·1	26
83·1	82·1	80·9	79·1	78·6	77·9	77·0	76·2	75·3	78·3	15 12	84·0	6 20	74·5	27
81·8	81·1	79·9	78·1	77·5	77·0	76·6	76·3	75·7	77·3	14 36	82·6	6 22	71·9	28
80·1	79·0	77·4	76·1	75·5	74·9	74·1	73·3	72·7	74·8					Mean.
+5·3	+4·2	+2·6	+1·3	+0·7	+0·1	−0·7	−1·5	−2·1						Variation.

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

MARCH. (IN DEGREES FAHRENHEIT.)

Date.	Hours.														
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13	13—14	14—15
1	74·1	74·0	73·9	73·3	72·5	**72·1**	72·2	73·7	76·6	78·5	79·4	80·0	81·1	81·6	81·9
2	74·2	74·4	74·9	75·0	75·0	74·7	73·1	73·7	76·7	78·9	80·3	81·4	82·8	83·5	83·6
3	74·7	74·6	73·9	74·1	74·2	73·7	73·9	74·5	75·9	77·7	80·0	82·6	84·1	84·3	83·6
4	75·7	75·7	76·2	76·9	76·0	74·9	73·9	75·2	77·9	79·8	81·5	83·3	84·6	84·9	85·1
5	76·2	75·7	76·8	76·2	75·0	74·4	75·4	76·7	78·5	79·9	82·8	84·1	84·7	85·0	85·0
6	78·5	77·9	77·6	76·9	76·1	75·4	76·1	77·2	79·2	80·7	82·2	84·8	86·4	86·5	87·8
7	79·9	79·6	78·8	77·8	77·8	76·5	76·9	78·2	80·3	81·7	84·6	86·8	86·8	87·0	87·4
8	78·7	78·0	77·4	76·9	77·0	76·2	76·1	77·2	79·0	80·5	82·9	85·0	86·9	86·9	87·0
9	80·3	80·0	79·3	78·8	78·2	77·3	76·7	77·2	79·8	80·8	83·0	83·2	84·2	85·1	85·4
10	79·7	79·1	78·9	78·8	78·2	77·7	77·1	78·0	79·7	81·1	83·1	84·6	85·3	85·4	85·0
11	78·9	78·1	77·2	77·0	77·1	76·7	76·5	76·9	78·7	80·6	82·0	82·9	84·0	84·8	85·1
12	77·1	76·6	76·1	75·4	75·1	74·9	75·3	76·4	78·4	80·2	81·4	82·4	83·1	84·3	84·6
13	77·5	77·3	76·9	77·0	76·4	75·8	75·6	76·8	78·5	80·4	82·2	84·2	85·2	85·4	85·4
14	78·5	78·5	78·6	78·7	78·0	76·9	75·8	77·2	80·1	82·4	84·5	86·5	87·7	88·4	88·5
15	80·3	79·7	79·4	79·2	78·5	78·0	77·0	78·2	79·7	82·2	85·1	86·2	86·9	87·4	86·8
16	80·3	79·6	79·2	78·6	77·9	78·0	77·8	78·0	79·8	81·5	83·5	84·7	85·5	85·9	85·9
17	79·7	79·5	79·0	78·5	78·6	78·8	78·7	79·7	81·1	82·3	83·4	84·4	85·4	86·2	86·6
18	81·0	80·5	80·5	80·3	79·5	79·2	79·5	80·5	82·0	83·4	84·7	86·0	86·8	87·2	87·2
19	81·8	81·6	81·5	81·3	80·8	80·5	80·0	81·5	83·3	84·5	85·4	86·2	87·3	87·7	87·8
20	82·3	81·8	81·4	80·2	79·9	80·0	79·5	81·5	84·3	85·2	87·0	90·3	**91·8**	91·2	91·2
21	85·3	83·0	81·8	81·5	81·0	81·0	80·9	82·3	84·0	86·0	88·2	90·8	90·5	89·4	88·7
22	81·8	80·7	79·5	79·0	79·4	79·4	79·5	80·9	82·7	84·0	85·5	87·5	88·6	89·1	88·7
23	82·2	81·9	81·4	80·4	79·4	78·7	78·4	79·8	82·8	84·7	86·2	87·1	87·7	87·5	87·5
24	81·0	80·3	79·6	79·5	78·5	77·6	77·3	79·0	82·1	84·6	86·0	86·5	88·2	89·3	89·4
25	81·9	81·2	80·0	78·7	78·6	78·2	77·9	80·7	83·0	84·7	86·4	87·4	87·9	88·9	89·5
26	81·5	80·5	79·6	79·5	79·4	79·2	79·0	81·0	83·8	84·9	87·7	**89·1**	90·4	90·3	90·5
27	83·1	81·8	80·6	80·6	80·2	79·6	79·3	81·4	84·0	86·6	87·6	88·9	89·4	89·9	89·9
28	81·5	80·7	80·3	79·6	80·5	80·5	80·6	81·5	83·2	85·5	87·0	87·5	88·5	89·0	89·0
29	80·1	80·2	79·5	79·2	79·7	79·0	78·7	80·2	82·0	83·4	84·9	86·0	86·5	87·0	86·8
30	79·8	79·1	78·0	78·2	77·8	78·0	78·3	79·2	81·0	82·4	84·0	84·8	86·1	87·3	88·0
31	81·5	80·8	79·7	79·5	79·2	79·0	79·0	80·5	82·8	85·0	85·5	85·8	86·7	87·4	87·1
Mean .	79·6	79·1	78·6	78·3	77·9	77.5	**77·3**	78·5	80·7	82·4	84·1	85·5	86·5	86·9	**87·0**
Variation .	—2·3	—2·8	—3·3	—3·6	—4·0	—4·4	**—4·6**	—3·4	—1·2	+0·5	+2·2	+3·6	+4·6	+5·0	**+5·1**

APRIL.

1	81·2	79·9	79·2	79·1	79·4	79·0	78·8	80·4	82·2	84·4	86·4	87·1	87·5	87·8	87·9
2	82·4	82·0	81·4	80·9	79·5	78·8	79·9	82·4	84·5	86·8	88·6	90·9	91·1	91·1	91·1
3	83·0	82·5	81·9	81·0	81·0	80·4	80·0	81·7	83·5	85·0	86·0	87·3	88·0	88·8	89·3
4	81·4	80·8	80·3	79·7	79·5	79·9	80·5	81·5	83·4	84·9	86·3	87·0	87.7	88·5	88·5
5	81·3	80·8	79·9	79·5	80·0	80·1	80·5	81·5	83·4	85·2	86·0	86·4	87·3	88·0	88·1
6	81·4	81·1	80·2	79·6	79·0	79·2	79·9	81·3	82·7	83·9	85·5	86·8	87·5	88·0	88·0
7	81·5	81·6	81·5	81·4	81·5	80·8	80·9	82·3	84·0	85.3	87·0	88·0	88·6	88·3	87·5
8	82·4	83·0	82·8	82·5	81·8	81·5	81·5	82·3	84·6	86·4	87·6	88·5	88·7	88·9	89·1
9	84·0	83·7	83·5	83·4	83·2	82·9	82·6	83·6	84·7	86·0	87·2	88·2	88·6	89·5	89·3
10	84·5	84 0	83·9	83·8	82·8	81·3	82·0	82·6	83·5	84·5	85·6	87·0	88·3	88·7	89 3
11	82·8	81.7	80·8	81·0	80·5	80·4	80·5	82·2	84·5	85·8	86·8	88·2	88·9	89·0	88·7
12	80·0	79·5	79·5	79·6	80·0	79·8	79.9	81·4	84·0	85·6	86.8	87·6	88·5	88·6	89·4
13	81·7	81·4	80·6	80·5	80·3	80·5	80·2	82·3	84·9	86·1	87·0	88·2	89·0	88·8	87·8
14	80·5	80·3	79·5	79·1	78·9	**78·5**	79·0	80·8	82·5	83·8	85·0	86·8	87.0	87·9	88·0
15	80·7	81·8	81·9	81.8	81·0	80·5	81·2	82·6	84·2	86·0	88·3	89.2	90·1	89·8	89·5
16	84·0	83·6	83·2	83.0	83.2	83·3	83·1	84·0	85·4	87·2	88·0	89·0	89·8	90·3	90·0
17	83·8	83·5	83·1	83·0	82·8	82·2	82·3	84·0	85·9	86·8	87·2	88·3	89·0	89·1	89·2
18	83·0	82·2	81·9	81·5	81·9	82·2	82·5	84·0	85·3	86·4	87·0	87·8	88·5	89·5	89·6
19	82·5	82·5	82·3	82·2	81·5	81·0	81·5	82·5	83·2	85·1	86·6	87·7	88·6	89·3	89·5
20	84·1	83·4	83·0	82·8	82·7	82·6	83·4	85·5	88·2	89·4	90·6	90·7	92·0	92·0	91·0
21	84·5	84.0	83·9	84·1	83·6	83·5	83·7	84·2	85.6	88·7	91·9	92·2	**92·6**	91·7	**92·1**
22	84·9	84·4	84·4	84·6	83.5	82·4	82·8	84·5	86·0	88·1	89·7	91·0	91·5	91·3	90·8
23	82·5	82·4	82·0	81·6	81·5	81·7	82·3	82·1	82·3	83·9	86·9	89.1	89·7	90·5	90·5
24	79.2	79·8	80·0	79·9	79·5	78·7	79·2	82·0	83·5	84·7	86·0	86·7	88·0	89·4	89·3
25	82.0	81·7	81·6	81·4	81·0	80·4	81·4	83·5	84·8	85·5	86·5	87·5	88·9	88·9	89·0
26	82·4	82·4	82·1	81·6	81·5	80·9	81·5	82·8	83·4	84·5	85·5	87·5	88·2	89·0	89·2
27	82·5	82·5	82·1	82·0	81·5	81·4	82·3	84·0	85·5	86·0	86·8	87·8	88·6	89·2	89·1
28	83·5	83·4	83·0	83·0	83·1	82·9	83·1	84·5	85·1	86·8	88·1	89·0	89·1	89·3	89·0
29	83·2	83·0	83·0	83·0	83·0	83·4	83·8	85·0	85·8	87·0	88·0	88·8	89·5	89·9	89.3
30	84·2	83·8	83·9	84·0	84·1	84·0	84·7	86·0	87·0	88·2	89·2	89·5	90·7	90·6	89·9
Mean .	82·5	82·2	81·9	81·7	81·4	**81.1**	81·5	82·9	84·5	85·9	87.3	88·3	89·1	**89·4**	89·3
Variation .	—2·4	—2 7	—3·0	—3·2	—3·5	**—3.8**	—3·4	—2·0	- 0·4	+1·0	+2·4	+3·4	+4·2	**+4·5**	+4·4

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

MARCH. (IN DEGREES FAHRENHEIT.)

Hours.									Mean.	Maximum.		Minimum.		Date.
15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24		Time.	Mag.	Time.	Mag.	
										H. M.		H. M.		
81·5	80·7	79·3	77·6	77·1	76·9	76·2	75·7	75·1	**76·9**	14 28	82·7	6 5	**71·6**	1
82·9	81·9	80·3	78·8	78·0	77·2	76·3	75·5	75·1	77·8	13 55	84·0	6 55	73·0	2
83·1	82·0	80·7	79·3	78·9	78·1	77·4	76·4	76·2	78·1	13 10	84·8	6 10	73·3	3
85·1	84·3	82·2	80·8	79·7	78·8	78·4	77·4	76·7	79·4	15 9	85·6	6 45	73·6	4
84·8	83·9	82·2	80·7	79·9	79·0	78·6	78·6	78·7	79·7	15 8	85·4	5 35	74·1	5
88·0	86·8	85·0	83·7	82·9	81·8	81·7	81·3	80·7	81·5	15 10	88·4	5 35	75·2	6
87·9	86·6	84·2	83·0	82·2	81·7	81·0	80·1	79·1	81·9	15 30	88·0	5 35	76·0	7
86·4	85·2	83·5	82·1	80·9	80·4	80·7	80·7	80·7	81·1	14 51	87·6	6 25	76·1	8
85·4	84·9	83·5	81·9	81·1	80·7	80·6	80·4	80·2	81·2	15 47	85·7	6 47	76·2	9
85·3	84·8	83·2	81·3	80·8	80·1	80·0	79·6	79·2	81·1	15 7	85·6	6 25	77·0	10
84·8	84·1	82·7	80·9	80·0	79·2	78·6	78·0	77·6	80·1	14 35	85·5	6 45	76·1	11
84·2	82·9	81·6	80·2	79·8	79·4	79·2	78·6	78·1	79·4	13 55	84·9	5 23	74·5	12
85·0	84·2	83·0	81·8	81·3	80·7	79·9	79·0	78·7	80·3	13 25	85·8	6 35	75·5	13
87·9	87·2	86·3	84·8	84·1	82·8	81·5	81·3	80·7	82·4	13 52	89·3	6 35	75·4	14
86·5	85·5	84·5	83·0	81·9	80·7	81·0	81·0	80·5	82·1	13 15	87·7	6 45	76·4	15
85·4	84·4	83·5	82·2	81·5	80·9	80·7	80·3	80·0	81·5	14 8	86·4	5 20	77·3	16
86·3	85·5	84·2	83·0	82·4	82·1	81·8	81·6	81·4	82·1	14 25	86·9	4 32	78·0	17
87·2	86·2	84·9	83·8	83·2	82·2	82·0	82·0	82·0	83·0	14 47	87·6	5 12	79·1	18
87·5	86·7	87·2	86·2	85·2	84·6	83·6	82·7	82·5	84·1	15 3	88·3	6 30	79·8	19
91·1	90·6	87·8	85·6	84·7	83·9	83·2	83·4	83·0	85·0	13 7	**92·5**	6 7	79·2	20
87·8	87·7	86·7	85·2	84·2	83·6	83·4	83·2	82·7	85·0	11 55	91·5	4 38	80·6	21
89·0	88·3	87·0	85·8	85·2	84·6	83·3	82·0	82·4	83·9	13 32	89·7	3 50	78·8	22
87·7	87·1	85·8	84·2	83·3	82·6	82·4	82·0	81·7	83·4	15 15	88·4	6 15	78·2	23
88·7	87·5	86·5	85·6	85·2	84·5	83·6	83·0	82·3	83·6	14 15	90·0	6 40	77·1	24
89·4	88·5	87·3	86·0	84·9	84·2	83·8	83·2	83·0	84·0	14 28	89·9	6 10	77·5	25
91·6	91·2	90·0	88·7	87·3	85·6	84·9	84·0	83·5	**85·1**	15 30	91·8	6 20	78·4	26
89·5	89·0	87·5	85·7	84·9	84·2	83·7	83·5	83·0	84·7	13 30	90·5	6 30	79·1	27
89·0	87·9	86·0	84·3	83·5	82·9	82·3	81·5	80·4	83·9	13 8	89·5	3 50	79·5	28
85·5	84·2	82·8	81·6	81·3	80·5	80·2	80·4	80·3	82·1	13 30	87·6	6 22	78·5	29
87·6	87·3	85·7	84·0	83·1	82·4	82·1	82·0	82·0	82·4	14 27	88·5	4 52	77·6	30
86·8	85·9	84·7	83·2	82·6	82·3	81·8	81·4	81·4	82·9	13 45	87·8	6 10	78·8	31
86·7	85·9	84·5	83·1	82·3	81·6	81·1	80·6	80·3	81·9					Mean.
+4·8	+4·0	+2·6	+1·2	+0·4	—0·3	—0·8	—1·3	—1·6						Variation.

APRIL.

88·3	88·2	87·3	86·0	85·4	84·8	83·5	83·5	82·9	83·8	16 35	88·5	6 28	78·6	1
90·6	89·6	88·0	86·2	85·4	84·9	84·5	83·9	83·4	85·3	12 34	91·7	5 26	78·6	2
89·0	88·5	87·4	85·7	84·5	84·0	83·3	82·5	82·0	84·4	14 32	89·5	6 23	79·9	3
88·4	87·4	86·2	84·5	83·8	83·3	82·8	82·4	81·7	83·8	13 48	88·7	5 10	79·3	4
88·5	87·4	86·0	84·5	83·5	83·0	82·5	82·0	81·7	83·6	15 22	88·6	3 12	79·4	5
87·5	86·4	84·9	83·5	83·4	83·4	82·9	82·7	82·1	83·4	14 30	88·5	5 30	79·0	6
87·2	86·1	84·9	84·0	83·6	83·3	82·7	82·6	82·5	84·0	12 12	89·2	6 8	80·4	7
88·3	86·8	85·5	84·7	84·5	83·6	83·4	83·0	83·2	84·8	13 50	89·5	6 20	81·3	8
89·1	88·1	87·0	86·4	85·6	84·9	85·0	85·0	84·8	85·7	13 11	90·2	6 35	82·6	9
89·0	88·0	87·1	84·8	84·4	84·5	84·5	84·1	83·8	85·1	15 0	89·7	4 58	80·8	10
88·1	86·9	85·8	84·1	83·3	82·5	81·5	80·9	80·4	84·0	12 40	89·4	5 42	80·2	11
89·4	88·9	88·0	86·3	85·3	84·5	84·1	83·3	82·3	84·3	15 2	89·8	1 28	79·4	12
87·3	86·1	84·6	83·0	82·2	81·8	81·5	81·2	80·6	83·7	12 35	89·5	6 30	80·1	13
87·4	86·3	84·8	83·5	83·4	83·0	82·4	81·8	82·0	**83·0**	14 10	88·8	5 50	**78·3**	14
89·4	88·1	86·8	85·5	85·1	84·4	84·4	84·3	84·0	85·0	12 25	90·4	5 38	80·4	15
89·5	88·3	86·8	85·6	85·3	84·8	84·5	84·3	84·1	85·8	13 30	90·5	3 40	82·7	16
88·6	88·3	86·8	85·2	84·7	83·8	83·2	83·6	83·0	85·3	14 36	90·1	5 40	82·0	17
89·4	88·0	86·3	84·9	84·4	84·3	83·8	83·4	83·2	85·0	13 55	89·8	3 36	81·4	18
89·5	89·6	88·5	87·1	86·5	86·0	85·5	85·0	84·8	85·4	14 8	89·8	5 30	80·7	19
90·0	89·6	88·2	87·5	87·2	87·4	87·4	86·9	85·9	87·1	13 18	92·5	5 52	82·3	20
91·5	90·4	88·8	87·5	86·9	86·5	86·4	85·5	84·7	**87·3**	12 45	**93·5**	6 12	83·4	21
90·5	89·8	88·0	86·5	85·7	85·6	85·4	82·1	82·4	86·5	13 0	92·4	22 22	81·8	22
90·0	89·0	87·0	84·9	84·5	84·2	84·1	84·3	80·0	84·9	14 24	90·8	23 50	78·5	23
88·8	87·2	85·4	84·1	83·8	83·6	83·5	82·8	82·4	83·6	13 40	90·3	5 50	78·5	24
88·3	87·1	85·4	83·8	83·5	83·3	83·0	83·3	82·8	84·4	12 35	89·6	5 28	80·3	25
89·1	88·1	86·4	84·6	83·8	83·8	83·5	83·5	82·9	84·5	13 40	89·6	5 38	80·5	26
88·9	87·6	86·5	84·5	84·3	84·0	83·9	83·7	83·5	84·9	14 48	89·8	5 2	81·2	27
87·9	86·8	85·9	84·5	84·5	84·0	84·0	83·5	83·5	85·3	13 16	89·7	5 58	82·8	28
88·6	87·5	86·7	85·5	85·1	84·8	84·8	84·6	84·5	85·7	13 56	90·4	2 12	82·8	29
89·2	88·0	86·8	85·8	85·5	85·4	84·8	84·5	84·3	86·4	12 50	91·4	2 14	83·7	30
88·9	87·9	86·6	85·2	84·6	84·2	83·9	83·5	83·0	84·9					Mean.
+4·0	+3·0	+1·7	+0·3	—0·3	—0·7	—1·0	—1·4	—1·9						Variation.

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

MAY. (IN DEGREES FAHRENHEIT.)

Date.	Hours.														
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13	13—14	14—15
1	83·6	83·5	83·2	82·5	81·8	82·1	83·2	84·8	86·4	86·9	87·6	88·8	89·7	90·5	90·7
2	84·5	84·5	84·5	84·6	84·5	84·5	84·9	85·8	87·1	88·3	89·3	89·8	90·5	90·6	90·5
3	85·0	84·9	84·7	84·6	84·0	84·0	84·8	85·7	86·9	87·5	88·4	89·3	90·6	90·8	90·5
4	85·3	85·0	85·0	84·8	84·5	84·7	85·6	86·8	88·9	89·9	90·4	90·7	91·4	91·4	91·1
5	85·5	85·4	85·4	85·3	85·1	85·0	85·6	86·8	88·4	89·3	89·9	90·1	90·8	91·2	90·9
6	84·7	84·5	84·4	84·2	84·0	84·1	84·8	85·9	88·1	89·1	90·2	91·0	90·9	91·1	90·6
7	84·6	84·5	84·3	84·0	83·9	83·8	84·1	86·0	87·6	88·5	89·4	89·8	90·0	90·2	90·3
8	84·4	84·2	83·6	83·5	83·5	83·6	84·0	85·8	87·5	88·0	89·4	90·0	90·2	90·4	90·6
9	84·4	84·1	83·6	83·5	83·5	83·5	84·6	85·6	86·3	88·4	89·7	90·6	90·5	90·6	90·8
10	83·9	83·8	83·7	83·6	83·0	82·6	83·4	84·6	85·9	87·2	88·8	89·8	90·8	90·7	90·3
11	82·6	82·6	82·5	82·0	81·6	**81·4**	82·0	84·0	84·6	85·5	87·5	88·3	89·2	89·8	90·1
12	83·5	83·2	82·7	82·6	82·5	81·8	82·9	84·0	85·3	86·8	88·3	89·0	89·6	90·6	90·5
13	84·6	84·4	84·2	84·0	83·7	83·5	84·2	85·3	86·6	88·0	89·2	90·0	90 6	90·8	91·0
14	85·2	85·0	84·7	84·5	84·5	84·5	84·9	86·1	87·7	89·0	90·4	90·7	91·0	91·4	91·4
15	85·3	84·9	84·6	84·4	84·3	84·2	84·7	86·0	86·9	88·0	89·2	89·8	90·8	91·4	91·7
16	84·7	84·6	84·3	84·1	83·9	83·7	84·6	85·6	87·3	88·5	89·5	90·1	91·1	91·4	91·4
17	84·0	83·8	83·5	83·4	83·5	83·3	83·9	85·0	86·5	88·0	89·1	89·7	90·5	90·9	90·6
18	84·2	84·3	83·8	83·7	83·6	83·7	84·5	85·5	86·3	88·0	88·7	90·2	91·1	91·6	91·5
19	84·6	84·6	84·4	84·0	83·7	83·5	83·9	84·9	86·3	86·8	87·3	87·3	87·5	87·9	89·8
20	85·2	84·8	84·4	84·4	83·8	82·9	83·4	85·3	87·7	89·6	90·3	91·5	92·5	**92·6**	91·8
21	83·6	83·5	83·3	82·9	83·1	82·9	83·6	84·9	86·5	87·8	88·7	89·4	90·2	91·1	91·0
22	84·5	84·2	83·8	83·6	83·5	83·5	83·9	85·7	87·4	88·2	89·0	89·5	90·5	91·0	91·2
23	85·0	84·9	84·6	84·4	84·2	84·0	84·1	85·1	87·0	88·3	89·2	89·6	90·4	91·0	91·1
24	85·0	84·7	84·6	84·5	84·5	84·3	85·0	86·3	87·8	89·1	90·2	90·6	91·3	91·3	91·2
25	85·0	84·9	84·6	84·2	84·1	84·0	84·7	85·8	87·2	88·7	90·0	90·3	90·5	90·5	91·8
26	84·9	84·8	84·7	84·7	84·6	84·5	85·0	85·7	87·1	88·9	90·1	90·6	90·8	91·5	91·6
27	85·4	85·1	84·8	84·7	84·6	84·6	85·1	86·2	87·6	89·0	90·1	90·6	91·3	91·6	91·6
28	85·1	85·0	84·9	84·8	84·5	84·5	85·1	86·6	88·2	89·2	90·2	90·8	91·5	91·4	91·6
29	85·4	85·1	84·7	84·6	84·6	84·5	84·8	86·0	87·4	88·5	89·8	90·4	90·8	90·9	90·7
30	85·2	84·8	84·8	84·7	84·8	84·9	85·5	86·7	88·1	89·1	90·4	90·6	91·0	91·5	91·1
31	86·1	85·8	84·9	84·7	85·0	84·8	85·3	86·1	88·2	89·2	90·3	90·3	91·0	91·3	91·4
Mean .	84·7	84·5	84·2	84·1	83·9	**83·8**	84·4	85·6	87·1	88·3	89·4	90·0	90·6	**90·9**	90·9
Variation .	—2·2	—2·4	—2·7	—2·8	—3·0	**—3·1**	—2·5	**—1·3**	+0·2	+1·4	+2·5	+3·1	+3·7	**+4·0**	+4·0

JUNE.

1	86·3	85·6	85·1	85·1	85·1	85·0	85·2	85·9	86·8	88·9	90·0	89·6	91·0	91·1	**91·2**
2	85·8	85·8	85·4	85·3	85·4	85·1	85·7	86·6	88·2	89·3	90·5	90·7	90·2	90·2	90·9
3	82·8	82·1	82·6	82·0	82·1	82·5	81·0	82·0	83·8	85·1	86·3	86·9	87·4	88·3	89.0
4	84·1	83·7	81·9	81·6	81·5	81·4	81·8	82·8	84·2	85·8	86·9	87·0	87·6	87·2	88·1
5	83·2	82·9	82·6	82·2	82·0	81·9	80·9	80·9	81·9	82·4	83·9	85·3	85·2	82·1	79·0
6	78·8	77·8	75·8	75·1	**75·0**	75·2	76·5	76·8	77·8	78·3	80·1	80·1	79·8	77·6	77.3
7	77·0	76·6	76·7	76·7	77·5	77·8	78·9	78·5	78·0	79·1	79·8	80·6	81·0	81·1	80·5
8	81·0	80·4	81·1	80·2	80·0	79·2	81·9	81·2	82·7	82·2	83·7	85·1	85·0	84·9	83·2
9	83·0	82·6	82·9	83·4	83·5	83·5	83·5	83·5	84·1	84·8	84·7	86·1	86·6	87·5	87·2
10	84·0	84·0	83·9	83·5	83·5	83·4	83·9	84·7	85·9	86·6	87·4	87·9	88·0	87·7	88·1
11	84·3	84·1	83·9	83·5	83·3	83·3	83·5	84.2	85·8	86·8	87·6	88·0	88·6	88·9	88·6
12	83·9	83·9	83·6	83·5	83·5	83·4	83·7	84·3	85·8	86·7	87·6	84·9	86·9	85·2	86·1
13	80·7	81·2	80·8	80·9	81·8	82·1	81·9	82·1	83·1	84·7	85·5	86·5	87·0	83·1	81·9
14	82·5	82·5	79·4	79·9	79·3	79·9	81·0	79·5	78·9	79·1	79·2	80·0	80·9	81·3	82·3
15	80·0	79·8	79·6	79·4	79·4	79·3	79·9	80·3	81·3	82·4	84·0	84·6	84·6	84·9	85·1
16	77·4	77·8	77·9	78·3	78·9	78·9	79·2	79·9	80·0	80·8	82·4	83·1	83·9	84·3	84·5
17	78·1	78·9	77·9	77·9	78·1	78·4	79·0	79·9	80·5	81·5	81·0	77·3	77·1	78·1	80·1
18	79·1	78·9	78·8	78·4	78·3	78·4	78·8	79·9	81·0	81·0	81·8	82·1	82·3	82·3	83·0
19	79·9	79·9	79·6	79·1	78·8	79·0	79·3	80·0	81·9	82·8	84·0	84·2	83·7	84·6	84·8
20	81·2	81·0	80·9	80·8	80·1	80·0	80·0	80·1	81·5	82·2	83·9	85·0	85·3	85·4	85·8
21	82·2	82·1	82·0	81·6	81·4	80·9	80·9	81·1	81·1	81·3	82·2	81·8	80·5	80·2	79·6
22	77·9	77·9	78·2	78·5	78·7	79·1	78·1	77·6	77·8	79·1	79·8	80·9	82·0	80·7	81·1
23	81·4	81·3	81·4	81·6	81·7	81·5	81·6	82·0	83·0	83·5	83·7	84·9	85·2	84·8	83.8
24	81·2	80·6	80·1	79·9	80·4	80·2	79·4	79·1	78·6	77·0	78·2	79·7	81·1	82·6	83.1
25	79·6	79·5	79·4	79·1	79·0	79·1	79·0	78·9	79·0	79·7	80·5	79·9	79·6	80·1	80·9
26	80·4	80·1	80·1	79·3	79·4	79·1	78·1	78·1	**79·1**	78·9	80·3	81·2	82·1	83·0	82·7
27	78·4	78·9	78·6	78·6	78·6	78·7	79·1	80.2	81·9	83·0	84·2	84·9	84·1	83·7	83·6
28	80·1	80·0	80·0	80·0	80·0	79·9	80·1	80·9	82·5	84·1	85·2	86·0	85·0	84·5	84·3
29	80·9	80·4	80·2	80·0	80.0	79·9	79·8	80·1	81·2	82·0	83·5	84·8	85·2	85·0	85·4
30	80·0	80·0	79·6	79·1	78·9	79·0	79·2	79·0	79·0	80·2	81·1	80·2	81·3	80·9	80·3
Mean .	81·2	81·0	80·7	**80·5**	80·5	80·5	80·7	81·0	81·9	82·6	83·6	84·0	**84·3**	84·0	84·0
Variation .	—1·0	—1·2	—1·5	**—1·7**	—1·7	—1·7	—1·5	—1·2	—0·3	+0·4	+1·4	+1·8	**+2·1**	+1·8	+1·8

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

MAY. (IN DEGREES FAHRENHEIT.)

Hours.									Mean.	Maximum.		Minimum.		Date.
15- -16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24		Time.	Mag.	Time.	Mag.	
										H. M.		H. M.		
90·3	89·3	88·0	86·7	86·3	85·6	85·6	85·4	85·0	86·1	13 16	90·7	4 10	81·7	1
90·0	89·5	87·9	87·0	86·6	86·2	85·6	85·3	84·9	87·0	12 38	91·2	0 12	84·5	2
90·1	89·7	88·9	88·0	87·6	87·2	86·8	86·4	85·8	87·2	14 2	91·0	5 0	83·6	3
90·4	89·7	88·2	87·0	86·5	86·0	85·9	85·7	85·6	87·5	13 32	92·0	3 22	84·5	4
89·7	89.4	87·9	86·5	86·2	85·6	85·5	85·3	85·0	87·3	13 20	91·4	5 20	84·9	5
90·3	89·5	88·2	86·9	86·3	85·8	85·5	85·4	85·2	87·1	12 5	91·1	5 10	83·9	6
90·4	89·4	88·0	86·5	85·7	85·4	85·3	85·0	84·6	86·7	12 30	90·5	4 0	83.5	7
90·3	89·7	88·0	86·8	85·9	85·4	85·0	84·8	84·8	86·6	14 30	91·5	5 30	83·4	8
90·6	89·9	88·0	86·5	85·7	85·3	84·9	84·6	84·3	86·6	14 15	90·8	5 40	83·4	9
89.5	88·2	87·0	85·2	84·3	84·1	83·6	83·5	83·0	85·9	12 35	91·1	5 30	82·6	10
89·8	88·9	87·5	85·7	84·6	84·4	84·2	83·8	83·6	**85·3**	15 30	90·6	5 30	**81·1**	11
90·5	89·4	88·7	86·7	86·4	85·7	85·6	85·4	85·0	86·1	13 15	91·6	5 40	81·5	12
90·8	90·3	89·0	87·6	86·7	86·4	85·9	85·6	85·5	87·0	14 10	91·6	5 40	83·3	13
91·2	90·1	88·9	87·3	86·6	86·3	85·9	85·7	85·5	87·4	14 20	91·7	4 40	84·4	14
91·6	90·8	88·9	87·3	86·5	85·8	85·5	85·3	84·9	87·2	14 25	92·3	4 0	84·0	15
90·7	89·5	87·7	86·2	85·4	85·1	84·6	84·5	84·3	86·8	13 35	91·7	5 35	83·4	16
89·8	89·0	87·5	85·8	85·0	84·7	84·4	84·3	84·0	86·3	14 3	91·6	5 40	83·0	17
90·9	89·4	88·0	86·5	85·6	85·4	85·1	84·7	84·6	86·7	13 50	92·5	3 40	83·4	18
89·0	88·3	87·4	86·7	86·1	85·6	85·4	85·0	85.1	86·0	15 5	89·6	5 30	83·3	19
91·0	90·0	88·3	86·0	85·2	84·7	84·6	84·4	83·9	87·0	13 32	**93·0**	6 0	82·5	20
90·8	90·0	88·6	87·0	86·2	85·7	85·2	85·1	84·7	86·5	13 50	91·5	5 30	82·5	21
91·0	90·1	89·0	87·1	86·6	86·2	85·7	85·6	85·4	86·9	14 35	91·6	5 40	83·3	22
91·0	90·7	89·1	87·3	86·6	86·2	85·9	85·5	85·4	87·1	14 20	91·6	5 40	83·3	23
90·7	90·1	88·7	87·3	86·6	86·2	85·7	85·5	85·3	87·4	12 14	91·7	5 50	84·0	24
90·1	89·4	88·1	86·6	85·8	85·5	85·5	85·3	85·1	86·9	14 10	91·1	5 18	83·8	25
91·1	90·0	88·4	86·9	86·2	85·8	85·8	85·6	85·4	87·3	13 35	92·0	5 15	84·4	26
90·8	90·0	88·5	86·9	86·2	85·9	85·6	85·5	85·1	87·4	15 5	92·0	4 50	84·4	27
91·2	90·6	89·0	87·2	86·6	86·0	85·8	85·6	85·6	87·5	13 58	92·1	5 35	84·4	28
90·2	89·4	88·1	86·6	85·8	85·6	85·7	85·4	85·1	87·1	13 55	91·7	6 4	84·4	29
91·2	90·5	89·1	87·2	86·8	86·6	86·5	86·4	86·3	87·7	13 33	91·9	5 40	84·5	30
90·7	89.8	89.2	88·0	87·7	87·1	86·8	86·6	86·4	**87·8**	14 10	91·9	1 50	84·5	31
90·5	89·7	88·3	86·8	86·1	85·7	85·5	85·2	85·0	86·9					Mean.
+3·6	+2·8	+1·4	−0·1	−0·8	−1·2	−1·4	−1·7	−1·9						Variation.

JUNE.

91·1	89·9	88·0	86·8	86·4	86·3	86·1	86·0	85·8	87·4	13 18	**91·8**	1 35	84·7	1
91·0	89·8	88·7	87·7	87·2	86·9	86·4	86·2	86·0	**87·7**	15 15	91·5	5 35	84·6	2
88·7	87·8	86·8	85·9	85·4	84·9	84·4	84·2	84·0	84·8	14 40	89·5	6 5	80·2	3
87·8	87·7	86·9	86·1	85·2	83·3	84·0	83·8	83·6	84·8	14 15	88·3	2 35	81·2	4
79·6	81·4	81·1	81·1	81·4	79·9	78·1	78·2	77·9	81·5	11 50	85·6	14 38	77·6	5
76·9	76·6	77·4	77·7	77·5	77·3	76·7	76·5	77·2	**77·3**	10 55	80·6	3 55	**74·4**	6
81·0	79·9	81·4	80·0	81·2	81·9	82·1	82·2	82·1	79·7	21 35	82·6	1 25	76·4	7
81·7	82·1	81·0	82·0	83·1	83·1	81·6	83·1	83·5	82·2	11 20	85·5	5 30	78·7	8
86·8	86·1	85·6	84·9	84·4	84·3	84·2	84·2	84·2	84·7	13 44	87·7	2 5	82·5	9
87·8	87·3	86·5	85·5	85·0	84·7	84·6	84·4	84·3	85·5	14 2	88·5	5 15	83·3	10
88·5	87·6	86·9	85·8	85·0	84·6	84·5	84·3	84·0	85·7	13 35	89.0	5 35	83·0	11
86·6	86·6	84·8	84·1	84·0	83·9	81·9	82·1	82·2	84·6	10 45	88·0	21 35	81·5	12
80·2	81·6	80·6	81·4	81·3	81·6	81·9	82·5	82·5	82·4	12 5	87·4	16 54	77·5	13
82·8	82·5	82·1	81·1	80·7	80·6	80·6	80·0	80·1	80·7	15 35	83·1	7 40	77·9	14
84·9	83·7	83·5	83·0	82·9	82·3	81·3	80·3	78·7	81·9	13 40	85·6	23 45	77·4	15
84·6	84·5	83·9	83·0	81·0	81·4	81·5	81·0	78·0	81·1	15 35	84·8	0 20	77·1	16
80·6	81·0	80·2	79·3	79·4	79·8	79·9	80·1	79·1	79·3	10 15	83·0	11 55	76·5	17
82·8	82·6	82·5	81·6	81·3	81·2	80·9	80·4	80·1	80·7	14 42	83·5	4 10	78·2	18
83·9	84·0	83·1	82·8	82·2	81·6	81·9	81·6	81·5	81·8	14 20	85·0	4 5	78·5	19
86·2	86·3	85·2	83·9	83·5	83·2	83·1	82·9	82·5	82·9	15 35	86·5	7 15	79·8	20
79·6	79·6	79·7	79·2	79·0	79·9	79·9	80·0	79·6	80·6	11 11	82·9	23 56	78·2	21
82·0	82·4	82·3	81·3	81·0	81·2	81·5	81·4	81·2	80·1	16 35	82·6	7 5	77·1	22
83·5	83·4	83·1	83·9	82·5	82·5	82·6	82·1	82·0	82·7	12 10	85·6	1 20	81·1	23
83·4	81·8	80·8	79·2	78·9	79·2	79·6	80·1	80·1	80·2	15 30	83·6	9 40	76·6	24
81·0	79·5	79·4	79·1	78·6	79·5	80·0	80·1	80·4	79·6	15 20	81·5	6 44	78·4	25
82·1	81·4	80·5	79·2	79·3	78·9	79·1	79·4	78·9	80·0	13 40	83·2	6 28	77·8	26
82·5	81·6	81·9	82·0	81·9	81·5	81·1	80·6	80·2	81·2	11 35	85·6	0 10	78·0	27
83·9	83·5	82·6	82·5	82·1	82·0	81·8	81·5	81·2	82·2	11 50	86·2	5 10	79·4	28
84·2	83·5	82·5	82·3	82·5	82·2	81·0	80·4	80·2	82·0	12 30	85·7	6 15	79·5	29
80.5	78·9	79·3	78·1	78·2	79·1	79·5	79·1	78·9	79·6	15 17	81·6	16 40	77·4	30
83·9	83·5	82.9	82·3	82·1	82·0	81·7	81·6	81·3	82·2					Mean.
+1·7	+1·3	+0·7	+0·1	−0·1	−0·2	−0·5	−0·6	−0·9						Variation.

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

JULY. (IN DEGREES FAHRENHEIT.)

Date.	Hours.														
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13	13—14	14—15
1	78·1	78·5	79·8	79·3	78·9	79·2	79·1	79·8	80·1	80·2	78·8	79·2	79·1	78·1	80·1
2	80·1	79·6	79·6	80·4	80·0	79·1	79·3	80·5	81·6	82·6	83·5	84·0	83·9	84·5	84·1
3	79·7	78·8	77·9	77·1	77·7	77·9	77·4	77·9	78·8	79·0	80·1	82·0	81·5	82·0	83·0
4	81·4	81·3	80·0	78·8	79·0	80·6	80·9	81·2	81·6	82·0	81·7	81·8	83·1	80·8	81·4
5	82·0	81·9	82·0	81·9	82·2	82·2	82·7	82·7	82·0	80·9	81·9	82·6	82·3	83·2	83·3
6	81·9	81·8	80·7	80·5	79·6	79·6	79·9	79·9	82·2	82·4	82·0	81·3	81·9	83·4	84·3
7	78·9	77·6	78·1	78·9	80·3	80·3	81·0	81·7	83·1	83·6	83·6	84·8	85·0	84·3	84·7
8	82·4	82·3	82·1	82·0	81·9	81·9	81·9	82·3	83·4	84·0	85·1	85·6	85·8	**86·1**	85·8
9	82·0	81·8	81·3	81·7	81·4	81·2	81·5	79·9	79·0	81·3	82·0	82·6	83·1	82·9	81 8
10	78·9	79·3	80·0	80·3	80·3	80·2	80·4	80·4	80·1	81·0	81·3	80·8	79·2	77·2	77·3
11	**78·9**	79·1	79·3	79·0	77·8	78·0	79·1	79·6	78·1	79·3	79·9	81·5	82·6	82·3	82·4
12	**81·9**	81·0	80·0	80·8	81·3	81 0	81·6	81·1	82·2	81·7	83·3	82·6	82·6	81·2	81·9
13	81·6	81·9	82·0	81·8	82·0	82·0	82·0	82·1	81·9	82·0	81·9	81·8	82·4	83·3	82·5
14	81·4	81·3	81·3	81·4	81·5	81·4	81·9	82·3	82·9	83·7	83·9	84·2	84·4	84·9	**84·1**
15	81·4	80·7	80·5	80·6	80·9	77·8	78·9	79·5	80·2	82·2	83·3	83·6	84·1	84·7	84·5
16	81·0	81·0	80·9	81·0	80·7	79·1	80·8	81·5	82·0	83·1	84·1	84·6	84·5	83·3	83·0
17	81·3	80·5	80·8	80·7	80·8	80·8	81·1	81·6	82·2	82·7	83·7	83·7	84·0	84·5	83·3
18	81·1	81·1	81·0	81·1	80·9	80·8	81·0	81·7	81·2	82·1	83·1	83·4	83·7	83·2	83·3
19	81·4	81·1	81·2	81·1	81·2	81·1	81·2	81·4	81·5	81·1	80·0	81·1	81·1	81·3	82·0
20	81·1	80·8	80·9	80·7	80·6	79·1	79·9	80·6	81·2	81·9	82·7	82·5	82·9	83·3	83·1
21	81·0	81·0	80·6	79·7	80·5	80·6	80·9	81·5	82·2	82·8	83·9	84·6	84·6	84·8	84·6
22	81·3	80·9	80·9	81·0	81·0	81·1	81·2	81·5	81·8	82·8	83·8	84·2	84·1	84·2	84·1
23	81·6	81·7	80·6	80·9	81·1	81·1	81·5	81·9	82·7	82·5	82·5	83·8	84·7	84·1	84·0
24	81·3	81·3	81·1	81·2	81·1	81·4	81·6	82·0	82·1	82·2	81·7	82·1	81·8	81·9	82·7
25	81·0	80·9	80·9	80·4	80·8	80·4	80·9	80·9	81·3	82·3	83·0	82·9	83·8	84·1	83·7
26	81·1	80·2	80·5	80·1	80·8	80·8	81·0	79·5	80·6	81·5	82·1	83·6	84·1	82·1	82·0
27	80·7	80·7	80·6	80·4	80·5	80·5	80·6	79·8	81·2	82·5	83·1	84·1	84·2	84·3	84·1
28	81·1	81·0	80·6	79·9	79·0	77·9	80·3	81·1	81·9	83·1	84·3	84·4	85·0	84·3	83·9
29	81·4	81·1	81·0	80·9	80·8	80·7	81·0	81·6	82·8	84·0	84·9	85·3	83·9	84·9	84·6
30	81·1	81·1	81·1	81·0	81·0	81·0	81·1	81·9	82·8	82·9	84·0	83·8	84·3	82·4	83·6
31	80·4	80·5	79·8	78·1	79·2	79·2	80·2	80·9	81·1	82·3	83·8	84·0	84·1	84·7	84·0
Mean . .	80·9	80·7	80·6	80·4	80·5	**80·3**	80·7	81·0	81·5	82·1	82·7	83·1	**83·3**	83·1	83·1
Variation. .	—0·7	—0·9	—1·0	—1·2	—1·1	**—1·3**	—0·9	—0·6	—0·1	+0·5	+1·1	+1·5	**+1·7**	+1·5	+1·5

AUGUST.

1	79·3	79·8	79·5	79·1	79·4	79·1	80·4	80·9	81·4	82·1	79·7	79·5	82·0	83·5	84·0
2	79·6	79·0	77·9	78·8	78·9	78·0	79·9	80·8	81·4	82·5	83·1	84·2	84·6	84·6	84·5
3	80·4	80·5	80·1	79·9	79·8	79·1	79·9	80·8	81·4	81·6	82·5	82·8	83·6	**83·9**	84·3
4	80·2	80·4	79·9	79·3	80·0	80·0	80·6	81·1	81·8	82·9	83·4	84·4	84·2	83·8	82·9
5	81·1	81·0	81·0	80·8	80·6	80·7	80·9	81·1	81·9	81·3	80·9	82·7	81·0	83·1	83·8
6	80·5	80·4	80·0	80·0	80·2	80·4	80·0	79·1	80·9	82·1	83·1	84·2	84·4	84·9	85·1
7	81·1	81·2	81·1	81·2	81·1	80·6	80·1	80·9	82·0	83·0	83·8	83·9	84·8	84·9	82·2
8	80·9	80·7	81·0	81·0	79·9	79·1	77·8	78·6	79·7	81·2	82·0	81·5	80·0	81·4	83·1
9	80·5	80·5	80·5	80·7	80·6	80·5	80·8	81·3	82·6	83·1	84·2	84·5	84·2	84·2	84·4
10	80·9	81·0	80·6	80·5	80·2	80·1	80·6	81·1	82·2	82·9	82·0	82·2	79·0	82·0	83·7
11	80·2	80·2	79·2	80·0	80·0	80·1	80·2	80·8	81·2	83·0	83·9	84·3	85·0	**85·2**	85·1
12	80·5	80·1	80·0	80·1	79·9	80·2	80·6	81·1	82·0	83·6	84·1	84·3	84·9	84·4	82·9
13	80·3	80·3	79·1	79·1	79·7	79·9	80·1	80·9	81·8	83·3	83·7	84·2	84·9	83·9	83·6
14	80·1	80·1	80·0	80·0	80·1	80·1	80·6	81·1	82·2	83·1	84·0	84·6	84·9	85·1	84·7
15	80·5	80·2	80·0	80·0	79·9	79·4	79·5	79·6	79·0	79·8	78·7	78·9	79·4	80·1	82·1
16	79·2	79 7	79·6	79·6	79·4	79·0	79·2	80·1	80·9	81·2	83·0	83·8	84·1	84·3	84·1
17	79·9	79·6	79·4	79·0	78·6	78·2	77·2	78·6	80·0	81·1	82·9	83·8	83·9	83·5	82·0
18	80·2	79·5	78·5	78·6	77·7	78·2	77·8	78·8	78·0	77·8	80·8	82·0	81·8	81·4	81·3
19	79·6	79·5	79·4	79·6	79·7	79·9	78·8	79·9	79·9	80·2	82·3	82·8	82·5	82·6	82·0
20	80·1	80·1	80 0	80·0	79·9	79·9	79·1	80·2	81·3	81·5	82·3	83·4	84·2	84·4	84·1
21	80·1	79·7	79·7	79·9	79·2	79·6	79·6	79·6	80·2	80·0	79·6	78·0	79·6	79·0	77·9
22	79·0	79·3	77·3	78·0	78·8	78·9	77·8	78·1	79·0	79·9	77·8	77·9	80·5	82·6	82·9
23	80·0	79·9	79·8	79·7	79·6	79·6	79·7	80·2	80·6	81·1	82·5	83·8	83·6	83·6	83·1
24	80·1	80·0	78·3	78·6	79·4	78·5	77·1	77·2	77·6	78·3	79·5	81·1	81·5	81·1	80·2
25	80·0	80·0	79·5	79 0	79·1	79·9	77·9	76·9	76·3	77·2	78·2	80·2	81·4	82·1	82·1
26	79·7	79·7	79·4	79·3	79·5	79·4	79·1	79·2	78·7	80·8	81·5	82·2	82·9	82·9	82·8
27	79·6	79·7	79·4	79·1	79·4	79·4	79·9	80·6	81·2	81·4	83·1	83·0	84·0	84·3	82·1
28	79·1	78·5	77·8	78·1	78·7	78·7	78·7	79·9	80·6	81·9	82·8	83·7	82·9	83·5	84·3
29	79·4	79·2	79·0	78·7	78·0	78·0	77·8	79·5	80·9	82·0	83·2	83·8	84·2	**84·4**	84·5
30	79·5	79·6	79·3	79·1	79·0	79·0	79·2	79·9	81·2	82·2	83·1	83·6	83·9	84·5	84·6
31	80·0	79·7	79·8	79·6	78·8	78·6	78·1	77·7	78·0	77·4	78·2	78·0	77·1	78·2	78·3
Mean . .	80·1	80·0	79·6	79·6	79·5	79·4	**79·3**	79·9	80·5	81·3	81·9	82·5	82·7	**83·1**	83·0
Variation. .	—0·8	—0·9	—1·3	—1·3	—1·4	—1·5	**—1·6**	—1·0	—0·4	+0·4	+1·0	+1·6	+1·8	**+2·2**	+2·1

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

JULY. (IN DEGREES FAHRENHEIT.)

Hours.									Mean.	Maximum.		Minimum.		Date.
15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24		Time.	Mag.	Time.	Mag.	
										H. M.		H. M.		
81·8	81·9	80·0	81·1	80·8	80·1	79·5	80·4	79·6	79·7	16 55	82·2	13 35	77·0	1
84·3	84·0	83·1	80·4	80·1	79·0	78·0	77·8	79·1	81·2	14 5	85·4	22 41	77·3	2
82·8	82·6	82·6	82·2	82·2	82·1	81·7	81·7	81·7	80·4	14 30	83·4	3 35	77·0	3
82·9	82·9	82·0	82·1	82·0	82·1	81·7	81·9	82·0	81·5	12 41	84·0	4 10	77·9	4
83·4	83·1	82·8	82·6	82·5	82·3	81·4	81·6	81·6	82·3	14 50	83·6	9 30	80·5	5
84·2	82·3	81·2	81·1	81·6	81·3	80·6	80·1	80·1	81·4	15 30	84·8	5 5	79·1	6
84·8	84·4	84·0	83·4	83·1	83·0	83·0	82·8	82·6	82·4	12 20	85·6	1 50	77·3	7
85·6	84·9	84·4	83·7	83·2	83·1	82·8	81·9	82·1	**83·5**	13 50	**86·6**	5 5	81·6	8
82·5	83·2	83·1	82·3	82·1	78·2	79·4	80·0	79·1	81·4	17 5	83·6	20 25	77·2	9
77·0	**76·8**	77·3	77·1	77·4	78·4	78·0	77·9	77·8	**78·9**	11 15	82·9	16 35	76·4	10
82·0	79·2	79·8	80·9	81·4	81·5	81·8	81·9	82·0	80·3	12 8	83·6	3 55	77·0	11
82·2	81·8	81·3	81·0	81·3	81·6	81·8	81·9	81·7	81·6	10 45	83·6	1 45	78·6	12
82·9	82·7	82·3	81·7	81·3	81·1	81·2	81·4	81·5	82·0	13 20	83·7	20 5	80·0	13
84·0	83·6	82·9	82·2	82·2	82·0	81·6	81·6	81·5	82·6	13 0	85·0	2 10	81·1	14
84·0	83·3	80·0	81·0	81·1	81·5	81 5	81·5	81·5	81·6	13 42	84·9	5 40	**76·1**	15
83·3	83·0	82·6	82·3	82·1	82·0	81·9	81·5	81·4	82·1	11 20	84·8	5 10	78·6	16
82·6	82·6	81·9	81·7	81·8	81·6	81·6	81·5	81·5	82·0	13 25	85·3	1 0	79·8	17
82·9	81·5	81·4	81·7	81·1	81·0	81·4	80·9	81·1	81·7	12 5	84·6	7 55	79·6	18
81·8	81·2	81·4	81·4	81 5	81·3	81·1	81·1	81·3	81·2	14 52	82·2	11 45	79·6	19
81·9	81·3	81·5	81·3	81·3	81·3	81·3	81·2	81·0	81·4	13 17	83·6	5 50	77·7	20
84·1	83·1	82·5	81·6	81·4	81·5	81·2	81·1	81·2	82·1	14 25	85·0	3 10	79·2	21
83·6	83·4	82·9	82 5	82·1	82·0	82·0	81·8	81·2	82·3	12 50	84·8	1 30	80·5	22
83·3	83·1	82·4	82·1	81·9	81·5	81·2	81·4	81·5	82·2	12 30	85·0	2 32	79·3	23
82·4	81·6	81·5	81·2	81·1	80·9	80·9	81·1	81·1	81·6	14 55	83·7	12 50	79·5	24
84·0	83·1	82·1	81·2	81·1	81·3	81·3	81·1	81·4	81·8	13 25	84·5	2 55	80·0	25
81·6	81·9	81·6	81·5	81·4	81·4	81·0	80·2	80·8	81·3	12 45	84·5	7 50	78·0	26
84·2	83·1	82·7	82·1	81·9	81·6	81·5	81·5	81·4	82·0	15 25	84·6	7 50	79·0	27
84·3	84·2	83·2	82·2	82·1	81·6	81·6	81·5	81·5	82·1	12 32	85·2	5 10	77·0	28
84·4	82·8	81·9	82·2	82·1	82·2	82·0	81·8	81·5	82·5	11 35	85·8	5 40	80·5	29
84·0	83·4	82·9	80·0	80·1	80·8	81·0	81·0	80·7	82·0	12 15	85·1	18 25	79·7	30
82·1	81·4	80·8	79·1	78·8	78·1	79·0	79·7	78·9	80·8	13 35	85·0	3 10	77·5	31
83·1	82·5	81·9	81·5	81·4	81·2	81·1	81·1	81·0	81·6					Mean.
+1·5	+0·9	+0·3	—0·1	—0·2	—0·4	—0·5	—0·5	—0·6						Variation.

AUGUST.

82·0	79·7	79·9	79·8	79·1	79·6	79·2	79·9	79·9	80·4	14 58	84·4	5 30	78·4	1
83·3	82·9	82·7	82·1	81·6	81·5	81·5	81·5	81·4	81·5	14 48	85·2	5 40	77·3	2
84·1	82·9	82·2	82·0	81·6	81·3	81·0	80·6	80·4	81·5	14 35	84·6	5 25	78·6	3
83·9	83·0	82·7	81·6	81·7	81·0	81·1	81·1	81·0	81·7	12 10	84·7	3 25	79·0	4
82·0	82·1	82·3	81·7	81·3	81·2	81·4	81·5	80·2	81·5	15 10	84·4	10 27	78·9	5
84·8	84·2	82·8	81·7	81·5	81·5	81·4	81·2	81·1	81·9	14 30	85·4	6 55	77·5	6
83·4	83·1	82·2	81·6	81·4	80·1	81·0	81·0	81·1	81 9	13 55	85·5	20 5	79·5	7
82·2	83·0	82·5	81·6	81·3	81·1	81·0	80·9	80·8	80·9	14 45	83·9	6 30	77·0	8
84·4	84·1	83·2	82·0	81·6	81·5	80·8	80·5	80·6	**82·1**	11 38	84·7	5 10	80·4	9
84·1	83·1	82·1	81·4	80·6	80·6	80·6	80·5	80·5	81·4	15 30	84·5	12 12	77·3	10
84·0	83·6	82·9	81·9	81·5	81·2	80·9	80·2	80·2	81·9	14 25	**85·6**	2 15	78·3	11
81·1	80·0	79·9	79·8	79·7	79·7	79·8	80·0	80·0	81·2	12 58	85·0	4 8	79·2	12
83·7	83·6	82·1	81·4	80·7	80·8	78·8	79·5	79·7	81·5	12 30	85·3	21 25	78·2	13
84·6	84·0	83·0	82·0	81·5	81·2	81·2	81·0	81·0	82·1	13 25	85·5	2 50	79·8	14
83·8	83·8	82·9	82·0	81·6	81·5	80·5	80·0	78·6	80·5	15 55	84·5	10 35	77·4	15
84·2	83·6	82·9	81·3	81·0	80·9	80·0	80·0	79 2	81·3	12 15	84·8	5 40	78·2	16
82·1	82·1	81·0	80·5	80·4	80·5	80·6	80·3	80·6	80·7	12 22	84·5	6 5	76·9	17
81·8	80·9	80·8	80·6	79·2	79·6	80·1	80·1	79·5	79·8	11 30	82·6	6 38	76·0	18
81·6	81·2	80·9	80·5	80·6	80·0	79·2	80·0	80·1	80·5	11 28	83·2	6 43	77·9	19
83·7	83·1	82·0	80·7	80·6	80·7	80·2	79·7	80·2	81·3	13 5	84·7	6 10	78·4	20
76·9	77·1	76·6	**75·9**	75·9	77·1	77·1	78·6	78·9	78·6	8 20	80·4	19 5	**75·4**	21
83·0	81·4	79·0	79·7	79·9	80·0	79·9	79·8	80·0	79·6	15 50	83·3	10 45	76·5	22
81·5	81·6	81·1	80·2	80·2	80·3	80·2	80·1	80·2	80·9	11 40	84·4	4 40	79·5	23
80·6	80·7	80·1	79·1	79·9	79·8	79·9	79·7	79·9	79·5	12 5	81·7	7 35	76·6	24
82·0	81·2	80·7	80·6	80·4	80·2	80·1	80·0	80·0	79·8	14 5	82·4	8 35	76·1	25
82·2	81·9	81·4	80·8	80·4	80·1	80·1	80·0	80·0	80·6	14 10	83·5	8 5	77·1	26
81·8	78·9	79·8	80·5	80·4	80·2	80·1	79·9	79·5	**80·7**	13 55	84·6	16 5	77·9	27
83·8	83·2	82·5	81·1	80·8	80·3	80·1	79·7	79·6	80·8	14 50	84·7	2 30	77·2	28
84·5	83.9	82·5	81·6	81·0	80·6	80·4	80·2	78·9	81·1	14 55	84·7	6 5	77·2	29
81·8	81·3	81·1	80·4	80·0	79·7	79·7	80·1	80·1	80·9	13 56	85·2	5 2	78·4	30
78·8	79·3	79·2	77·2	77·2	78·5	79·0	78·4	79·2	**78·5**	0 28	80·3	11 56	75·5	31
82·6	82·1	81·5	80·8	80·5	80·4	80·2	80·2	80·1	80·9					Mean.
+1·7	+1·2	+0·6	—0·1	—0·4	—0·5	—0·7	—0·7	—0·8						Variation.

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

SEPTEMBER. (IN DEGREES FAHRENHEIT.)

Date.	Hours.														
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13	13—14	14—15
1	77·2	78·2	78·0	78·3	78·5	78·2	78·2	79·4	80·6	82·1	82·2	82·0	81·6	82·8	80·7
2	79·4	79·4	79·2	79·0	79·0	79·0	79·2	79·6	80·6	81·2	82·1	83·8	83·9	84·3	83·9
3	79·0	79·1	78·6	78·7	78·5	78·7	78·7	79·0	79·1	80·2	80·7	81·2	82·2	83·7	84·1
4	77·8	77·5	77·1	77·1	76·6	76·5	77·1	78·5	80·5	81·3	82·2	83·4	83·7	84·1	84·1
5	79·5	79·4	78·7	78·5	78·5	78·3	78·1	77·1	78·3	79·9	81·0	82·7	82·8	82·8	79·1
6	78·1	78·2	78·2	77·3	76·6	76·8	76·5	76·5	76·9	77·6	77·8	77·7	78·6	79·5	80·8
7	75·6	76·1	76·0	75·9	76·2	76·2	75·9	76·0	76·6	76·9	77·8	79·3	80·4	80·3	81·1
8	78·0	78·0	78·2	78·3	78·1	78·0	78·3	79·1	80·1	81·5	82·6	83·2	83·6	84·2	84·1
9	78·5	78·7	78·7	78·6	78·6	78·5	78·4	79·5	81·2	82·3	83·5	83·9	84·2	83·7	83·0
10	76·9	76·9	77·1	77·2	76·6	76·4	76·2	76·5	75·8	76·9	78·0	79·6	80·9	81·3	81·5
11	78·2	77·9	77·4	77·0	76·8	76·9	76·9	77·7	79·3	80·7	82·4	83·0	83·3	83·5	84·4
12	78·9	78·4	78·2	77·7	77·2	77·9	78·1	79·2	80·7	81·7	82·8	83·1	84·0	84·5	84·6
13	78·5	78·3	78·0	78·1	77·9	77·6	77·3	78·4	80·1	81·4	82·5	82·7	83·6	84·4	84·6
14	79·2	78·5	78·4	78·3	77·6	77·5	77·7	79·2	81·0	82·3	83·5	84·0	84·6	85·0	84·5
15	81·5	81·1	80·5	80·2	80·0	79·8	79·6	80·6	82·6	83·9	84·3	84·9	85·6	86·0	85·7
16	81·0	80·9	80·5	80·4	79·7	79·5	79·7	81·2	82·1	83·6	84·1	85·1	86·0	86·6	86·3
17	79·5	79·4	79·5	79·6	79·3	79·4	79·5	79·5	79·5	79·6	80·6	82·1	83·2	84·9	84·8
18	75·5	75·2	75·6	75·6	75·4	75·6	75·5	75·9	77·5	78·5	79·6	80·4	81·0	81·5	81·3
19	77·1	77·5	77·5	77·5	77·6	77·6	77·7	79·0	80·5	81·6	82·2	83·4	85·0	85·6	85·0
20	78·1	78·0	77·9	77·5	77·5	77·5	77·3	78·5	80·0	81·0	81·8	82·7	83·5	83·5	84·1
21	78·5	78·9	78·8	78·5	78·5	78·5	78·7	79·8	81·4	82·4	82·8	83·1	84·0	84·6	85·2
22	79·5	79·2	79·0	78·6	78·6	78·5	79·0	80·1	81·1	82·8	83·9	84·8	85·5	85·9	86·3
23	81·5	81·5	81·4	81·5	80·9	80·8	80·6	81·5	82·9	83·9	84·7	85·2	85·6	86·2	85·9
24	82·3	81·7	81·6	81·5	81·4	80·7	81·0	82·2	83·6	84·6	85·5	86·1	86·8	86·7	87·2
25	82·5	82·5	82·5	82·4	81·8	81·6	81·8	83·1	84·4	85·6	87·5	89·1	**90·6**	90·6	90·1
26	82·1	81·2	80·6	80·5	80·5	80·2	80·0	80·5	81·4	83·3	84·2	84·7	84·3	84·5	85·3
27	77·0	77·0	77·3	77·5	77·3	77·0	77·5	79·4	80·7	81·1	82·3	83·3	83·9	84·4	84·9
28	78·5	78·5	78·5	78·4	78·5	78·6	78·7	79·6	80·5	81·3	81·9	83·7	84·9	86·0	86·5
29	77·4	77·4	77·5	78·0	78·4	78·6	79·1	79·5	80·5	82·0	83·0	83·6	84·0	83·6	83·6
30	79·5	79·4	79·3	79·0	79·0	79·0	79·0	79·5	80·7	81·9	83·6	83·6	84·1	84·3	84·3
Mean .	78·9	78·8	78·7	78·6	78·4	**78·3**	78·4	79·2	80·4	81·4	82·4	83·2	83·8	**84·3**	84·2
Variation .	—1·8	—1·9	—2·0	—2·1	—2·3	**—2·4**	—2·3	—1·5	—0·3	+0·7	+1·7	+2·5	+3·1	**+3·6**	+3·5

OCTOBER.

1	76·2	76·9	77·3	77·5	77·1	77·2	77·5	78·5	79·5	80·0	81·0	81·2	79·8	80·7	82·3
2	76·5	76·5	76·5	76·4	75·9	75·5	76·1	76·7	77·6	79·2	80·0	82·0	83·3	84·3	84·6
3	80·0	80·0	79·9	79·0	79·2	79·3	79·8	81·0	81·5	81·9	82·7	83·5	83·5	84·3	84·5
4	76·7	76·6	77·3	77·3	77·5	77·3	77·6	78·9	79·8	80·6	82·2	83·2	84·2	84·4	84·4
5	79·6	79·0	79·1	79·2	78·7	78·6	79·1	79·8	81·4	82·5	82·8	84·0	84·3	84·7	84·9
6	81·0	81·0	80·8	80·5	80·5	80·4	80·4	81·0	82·6	84·0	84·5	84·8	85·3	85·4	85·1
7	80·5	80·3	80·0	79·6	79·4	79·0	79·0	79·7	81·0	82·2	83·6	84·3	84·5	84·6	84·6
8	79·6	79·4	79·0	78·7	78·1	78·0	78·3	80·0	81·7	82·5	83·6	83·8	85·0	85·2	85·2
9	79·5	79·4	79·0	78·4	78·3	78·3	78·4	79·5	81·1	82·5	83·4	84·2	84·6	84·7	84·6
10	80·4	80 5	80·6	80·6	79·0	79·0	78·1	75·5	**74·5**	75·0	76·1	78·3	79·6	80·6	81·5
11	79·3	79·3	79·2	79·2	78·5	77·0	76·5	77·0	78·0	79·3	80·1	82·0	83·5	83·6	84·1
12	79·0	79·0	78·7	78·8	78·8	78·6	78·1	79·1	80·9	81·5	82·0	83·7	84·2	84·0	84·0
13	78·5	78·0	77·8	77·7	77·9	78·0	78·5	79·3	80·6	82·1	83·3	84·4	85·2	85·3	85·3
14	81·0	80·8	80·9	80·6	80·4	80·3	80·6	81·6	83·0	84·0	85·0	85·3	86·0	86·1	86·3
15	81·0	81·1	80·9	80·5	79·6	79·7	80·1	81·7	82·4	83·7	84·6	85·0	85·6	85·8	85·9
16	81·5	81·5	81·0	80·5	80·0	80·0	80·2	80·9	82·3	83·4	84·5	85·3	85·8	86·1	86·2
17	81·0	80·3	79·5	79·2	79·3	79·0	79·2	80·1	81·5	82·7	83·7	84·5	85·3	86·3	86·4
18	80·6	80·3	80·0	79·6	80·4	80·0	80·1	80·0	80·4	81·7	83·1	84·0	84·8	85·6	86·1
19	80·1	79·6	79·7	80·0	79·4	79·6	79·7	80·6	81·6	82·6	84·3	85·0	85·4	85·8	86·3
20	80·3	80·4	79·7	79·4	78·6	77·6	77·0	78·5	81·5	82·4	83·5	84·5	85·9	86·5	86·6
21	78·9	77·9	77·5	74·4	77·0	76·5	76·0	77·5	80·0	82·6	84·4	85·5	86·5	87·2	86·9
22	79·2	78·5	78·5	78·6	78·0	76·5	76·6	78·7	80·6	82·7	84·5	85·2	86·4	86·4	86·4
23	79·3	78·2	77·7	78·0	77·5	76·9	77·7	78·7	80·2	82·1	84·1	85·5	85·8	86·4	86·5
24	79·5	78·8	78·0	77·5	76·2	75·8	76·6	77·9	79·3	81·0	83·0	85·1	86·8	87·8	86·9
25	79·0	78·4	78·3	77·6	76·9	76·6	76·7	78·0	79·8	82·2	84·7	86·8	88·1	87·3	87·2
26	78·7	78·7	79·0	78·0	77·7	77·5	77·5	79·0	81·4	83·4	85·8	87·3	88·5	88·8	88·0
27	78·8	77·8	77·7	78·0	77·7	77·5	77·5	78·0	79·4	81·7	84·1	86·2	87·8	88·3	88·0
28	78·8	78·6	78·8	77·8	76·7	76·4	76·7	77·9	79·0	81·3	83·6	86·1	87·9	88·8	89·0
29	79·0	79·2	78·5	77·7	77·3	77·0	77 3	78·0	79·8	81·9	84·3	86·4	88·7	89·8	89·2
30	79·6	79·5	78·7	78·5	77·9	77·0	77·2	78·8	80·4	82·2	84·3	86·3	88·6	**90·0**	89·6
31	79·5	79·3	79·4	78·8	78·5	78·0	78·3	79·3	81·5	83·3	85·5	87·6	89·3	88·5	88·5
Mean .	79·4	79·2	79·0	78·7	78·3	**78·0**	78·1	79·1	80·5	81·9	83·3	84·5	85·5	85·9	**86·0**
Variation .	—2·2	—2·4	—2·6	—2·9	—3·3	**—3·6**	—3·5	—2·5	—1·1	+0·3	+1·7	+2·9	+3·9	+4·3	**+44.**

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

SEPTEMBER. (IN DEGREES FAHRENHEIT).

Hours.									Mean.	Maximum.		Minimum.		Date.
15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24		Time.	Mag.	Time.	Mag.	
										H. M.		H. M.		
80·1	79·9	80·0	78·2	79·2	79·6	79·5	79·4	79·4	79·7	13 48	83·5	0 30	76·1	1
83·5	83·1	81·9	80·9	80·2	80·4	80·0	79·7	79·3	80·9	13 0	84·6	5 5	78·7	2
83·6	82·9	81·9	80·7	80·1	79·6	79·3	78·8	78·4	80·3	14 40	84·4	4 55	78·3	3
83·6	83·5	82·3	81·3	80·9	80·2	80·0	79·6	79·6	80·4	14 25	84·6	5 45	76·4	4
79·2	79·4	79·6	79·1	79·0	79·1	79·0	79·1	78·2	79·4	12 25	83·7	7 35	76·6	5
82·5	81·8	81·0	79·6	79·2	79·2	79·1	76·9	**75·1**	78·4	15 24	82·9	23 42	**74·7**	6
81·9	81·5	80·7	79·5	79·4	79·2	78·9	78·5	78·5	78·3	15 50	82·6	0 0	75·1	7
84·1	83·2	80·8	80·6	**79·9**	79·6	79·1	79·0	78·6	80·4	13 32	84·6	1 10	77·9	8
82·5	78·7	78·2	77·3	76·6	77·6	77·5	76·8	76·6	79·7	12 35	84·6	20 0	76·5	9
83·2	83·2	81·7	80·5	80·0	79·5	79·5	79·2	77·9	78·9	15 35	83·6	6 42	75·9	10
84·5	84·1	83·0	81·4	80·8	80·3	**79·9**	79·5	79·2	80·3	14 55	84·8	5 58	76·5	11
84·3	83·4	82·0	80·9	80·5	79·8	79·5	79·4	79·0	80·7	14 10	85·0	4 30	77·0	12
84·5	83·9	82·9	81·5	81·0	80·8	80·5	80·1	79·8	80·8	13 50	84·9	6 15	77·1	13
83·9	83·2	82·6	82·1	81·9	81·8	81·7	81·6	81·5	81·3	13 23	85·2	5 40	77·4	14
85·5	84·7	83·5	82·5	82·2	82·0	81·6	81·5	81·2	82·5	13 50	86·4	6 28	79·5	15
83·4	82·6	82·5	82·1	81·3	80·2	**79·9**	80·0	80·0	82·0	13 24	86·9	4 38	79·4	16
84·6	84·1	82·9	81·4	80·1	78·0	77·4	76·8	75·9	80·5	13 50	85·7	23 55	75·2	17
81·5	81·5	80·1	78·6	78·0	77·6	77·5	77·5	77·4	**78·1**	15 50	81·6	1 14	75·0	18
85·0	79·8	77·9	77·2	78·1	77·9	78·0	77·8	78·1	79·8	13 20	86·1	0 10	77·0	19
83·6	82·0	81·4	80·5	79·9	80·0	79·9	79·1	78·6	80·2	14 40	84·4	6 0	77·2	20
85·1	83·7	83·0	82·5	82·0	81·0	80·5	80·0	79·9	81·3	15 11	85·5	0 15	78·4	21
85·7	84·8	83·9	83·0	82·6	82·5	82·3	81·9	81·7	82·1	14 10	86·5	5 52	78·4	22
85·6	84·9	83·9	83·5	83·3	83·4	83·4	82·9	82·6	83·2	13 24	86·5	6 20	80·5	23
86·6	85·5	84·8	84·3	83·7	83·5	83·5	83·1	82·9	83·8	14 10	87·7	6 5	80·5	24
89·9	88·8	87·6	86·6	86·1	85·5	85·3	85·0	84·2	**85·6**	12 2	**90 8**	6 3	81·4	25
85·9	85·3	84·3	83·8	83·5	81·0	77·2	76·9	77·1	82·0	15 13	86·5	6 16	79·8	26
83·4	79·4	78·5	77·5	77·3	77·1	78·1	78·2	78·5	79·5	15 3	85·1	6 5	76·9	27
85·0	82·1	81·5	81·0	80·5	78·5	78·4	77·9	77·4	80·7	14 43	86·7	23 50	77·3	28
82·4	81·9	81·5	80·9	80·5	80·5	80·4	80·0	79·7	80·6	12 35	84·1	2 0	77·1	29
84·4	83·7	82·6	81·5	81·3	79·5	78·0	76·3	75·6	80·8	13 58	84·5	23 35	75·5	30
84·0	82·9	81·9	81·0	80·6	80·2	79·8	79·4	79·1	80·7					Mean.
+3·3	+2·2	+1·2	+0·3	—0·1	—0·5	—0·9	—1·3	—1·6						Variation.

OCTOBER.

81·2	81·0	80·7	80·7	80·9	81·0	80·2	79·0	77·0	79·3	14 52	82·6	0 0	75·5	1
84·1	82·2	81·0	80·2	80·3	80·3	80·2	80·2	80·1	79·6	14 50	85·0	5 30	75·4	2
84·6	84·0	83·1	82·5	82·0	80·0	75·6	75·7	75·8	81·0	15 30	85·0	23 25	75·3	3
83·1	82·4	81·7	81·5	81·2	81·2	81·0	80·9	80·1	80·5	13 50	84·6	0 0	76·3	4
84·7	84·5	83·6	82·5	81·8	81·5	81·5	81·5	81·4	81·7	14 50	85·1	2 0	78·5	5
84·9	83·8	82·6	81·9	81·5	81·3	81·2	81·0	80·9	82·3	13 38	85·6	6 50	80.3	6
84·5	84·6	82·6	81·6	81·1	80·3	79·8	79·8	80·1	81·5	15 12	84·9	6 0	78·7	7
84·8	84·1	83·0	82·0	81·6	81·4	81·0	80·6	80·3	81·5	13 45	85·5	6 15	77·8	8
84·3	83·4	82·0	81·3	81·2	81·4	81·0	80·4	80·4	81·3	13 22	85·6	4 10	78·1	9
82·1	81·0	80·6	80·5	80·3	79·5	79·0	78·6	78·3	**79·1**	15 20	82·7	9 10	**74·0**	10
84·0	83·1	81·8	80·9	80·5	80·1	79·7	79·2	79·0	80·2	14 25	84·4	6 50	76·2	11
83·9	83·6	81·9	81·0	80·6	80·5	80·2	79·6	79·0	80·8	12 30	84·5	6 20	77·6	12
85·0	84·0	83·0	82·5	82·0	82·0	82·0	81·7	81·4	81·5	14 5	85·7	2 30	77·6	13
85·6	84·6	83·7	83·0	82·5	82·5	82·4	82·1	81·6	**82·9**	14 2	86·6	5 20	79·9	14
85·5	84·4	83·3	82·7	82·5	82·3	82·4	81·9	81·5	82·7	14 2	86·3	4 25	79·5	15
86·0	84·8	83·6	83·0	83·0	82·4	81·5	81·0	81·3	82·7	13 30	86·6	5 25	79·9	16
86·0	85·3	84·1	83·0	82·4	82·0	82·0	81·7	81·4	82·3	14 20	86·7	6 15	78·7	17
86·0	84·8	83·6	82·7	82·3	81·0	80·5	80·4	80·3	82·0	15 25	86·5	3 30	79·4	18
86·0	84·6	83·0	82·5	82·0	81·9	80·7	79·5	79·4	82·1	15 2	86·6	5 2	79·0	19
86·6	85·6	84·2	83·6	83·4	81·9	80·9	80·2	79·3	82·0	15 5	87·0	6 5	77·0	20
86·4	85·0	84·0	83·2	82·8	82·4	81 0	80·0	80·0	81·5	13 25	87·7	6 20	76·0	21
86·2	84·9	83·3	82·5	82·0	81·6	81·0	80·0	80·0	81·6	13 30	86·7	6 6	76·5	22
86·3	85·0	83·7	82·5	82·1	81·0	80·1	79 0	79·6	81·4	14 38	86·7	5 50	76·7	23
86·5	85·8	84·3	83·5	82·7	81·2	79·3	79·6	79 5	81·4	13 40	88·8	5 52	75·7	24
86·7	85·6	84·3	83·5	83·2	82·0	81·1	79·8	79·6	81·8	12 26	89·0	6 30	78·5	25
87·4	86·0	84·2	83·4	82·8	82 1	81·0	80·0	79·5	82·3	13 56	89·4	5 35	77·4	26
87·0	86·2	84·3	82·8	82·0	80·7	80·1	79·1	79·1	81·7	14 30	88·7	5 50	77·3	27
88·3	86·5	84·6	83·5	82·5	82·0	81·4	80·0	79·5	81·9	14 20	89·4	5 30	75·5	28
88·2	86·5	84·8	83·5	83·2	82·7	81·9	80·5	79·7	82·3	13 40	90·0	4 20	76·6	29
88·6	87·0	85·4	84·3	83·5	82·7	82·0	80·8	80·3	82·6	13 30	**90·5**	6 35	76·4	30
87·6	86·8	84·9	83·7	83·3	82·7	82·2	80·8	79·6	82·8	12 27	89·6	6 37	77·8	31
85·6	84·5	83·3	82·5	82·0	81·5	80·8	80·1	79·8	81·6					Mean.
†4·0	+2·9	+1·7	+0·9	+0·4	—0·1	—0·8	—1·5	—1·8						Variation.

NOVEMBER. (Averages for periods of sixty minutes from full hour to full hour of local mean time.) (IN DEGREES FAHRENHEIT.)

Date.	Hours.														
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13	13—14	14—15
1	79·1	79·3	78·8	78·9	78·3	78·4	78·5	79·3	80·9	82·5	84·5	86·6	88·7	90·2	90·0
2	79·8	79·5	78·9	78·6	78·5	78·0	77·8	78·5	80·5	82·5	84·9	86·2	88·2	90·3	90·1
3	80·2	80·4	79·4	79·2	78·9	78·1	77·6	78·3	80·7	82·6	84·9	86·1	88·2	89·0	88·8
4	77·8	78·3	78·.	77·6	77·1	76·5	76·3	77·1	79·0	81·2	83·4	86·2	87·8	89·3	87·5
5	79·4	78·4	78·0	77·8	76·8	77·2	77·6	77·8	78·9	81·0	83·0	84·4	87·3	89·7	88·3
6	78·7	78·8	78·0	78·2	76·8	75·3	75·3	76·8	79·3	80·7	81·8	83·4	84·0	84·5	84·5
7	78·1	77·8	77·7	78·3	78·5	78·2	78·3	78·9	80·0	81·0	83·2	84·8	85·5	86·5	86·6
8	81·6	81·3	81·1	80·8	80·8	80·5	80·4	81·0	82·2	84·1	86·1	87·7	87·7	88·2	88·2
9	82·5	82·2	81·5	81·2	81·0	80·7	80·6	81·2	82·3	83·8	85·5	86·5	86·6	86·6	86·7
10	81·5	81·5	81·4	80·9	80·5	80·0	79·8	80·7	81·7	83·2	84·5	85·4	86·5	87·4	87·8
11	80·5	80·1	79·6	79·3	78·5	78·2	78·2	79·2	80·2	81·5	83·3	84·5	85·5	85·9	86·2
12	78·8	78·2	77·7	77·3	77·4	77·2	76·4	76·6	78·7	80·1	81·2	82·6	85·0	86·3	84·9
13	79·4	78·8	78·8	77·9	77·3	76·7	77·6	78·4	79·5	80·0	80·8	82·6	85·7	86·4	87·3
14	81·0	81·0	80·7	80·0	79·3	78·6	79·1	79·6	81·2	83·0	86·3	87·9	87·5	87·5	87·0
15	81·3	81·6	81·2	80·9	80·5	80·6	80·6	81·0	82·4	83·9	84·5	85·5	87·2	87·6	86·0
16	81·5	80·7	81·2	81·4	81·3	80·5	80·3	80·5	81·3	82·4	84·1	84·6	85·2	85·4	86·1
17	79·5	79·4	78·9	79·4	78·6	78·4	77·7	78·5	80·4	82·1	84·5	86·2	86·6	86·6	86·5
18	79·9	79·4	79·5	79·3	79·0	78·6	78·3	78·6	79·5	80·4	82·0	84·5	85·8	86·8	87·5
19	79·1	78·3	78·6	79·0	79·1	78·2	77·8	78·8	80·3	82·5	84·7	86·2	87·7	88·6	88·6
20	79·5	78.3	77·4	77·7	77·3	77·3	76·0	77·4	79·2	80·7	82·5	85·0	86·7	86·7	86·6
21	79·3	78·7	77·2	75·8	74·9	75·5	75·8	76·5	77·8	79·7	82·0	84·2	86·2	86·3	85·7
22	77·8	77·5	77·5	77·2	76·7	76·4	75·5	76·2	77·9	79·6	82·0	84·1	85·7	87·5	87·4
23	78·0	77·3	76·9	78·8	76·0	76·5	76·1	77·2	79·0	81·2	83·4	85·6	88·2	89·8	**90·4**
24	74·7	75·8	74·9	74·8	75·1	75·1	75·6	76·5	78·6	81·5	83·9	85·6	87·8	89·4	90·4
25	75·7	75·5	75·4	75·3	75·4	75·6	76·1	77·2	79·0	81·4	84·4	85·8	87·5	88·4	86·2
26	75·8	75·3	74·5	74·0	73·8	73·8	74·0	74·8	76·3	78·3	80·9	83·0	84·9	86·5	87·2
27	74·8	74·5	73·5	73·0	72·5	72·2	72·7	73·9	75·2	77·1	79·3	81·6	83·6	85·5	86·3
28	74·0	73·4	72·8	72·1	71·4	70·9	71·3	72·1	73·6	76·3	78·8	80·8	84·0	85·9	86·3
29	74·3	73·5	72·8	72·3	71·4	70·9	71·4	72·2	74·0	76·7	79·1	81·0	83·3	84·9	85·0
30	73·9	73·0	72·0	72·2	71·7	71·3	**70·7**	71·6	73·2	74·9	77·6	80·1	83·3	84·9	84·6
Mean .	78·6	78·3	77·8	77·6	77·1	**76·8**	76·8	77·5	79·1	80·9	82·9	84·6	86·3	**87·3**	87·2
Variation .	—2·6	—2·9	—3·4	—3·6	—4·1	**—4·4**	—4·4	—3·7	—2·1	—0·3	+1·7	+3·4	+5·1	**+6·1**	+6·0

DECEMBER.

1	74·4	73·4	73·3	72·8	72·4	72·0	71·6	72·5	74·5	76·5	79·0	81·3	84·4	85·8	84·8
2	74·3	73·8	74·4	73·0	72·0	72·6	72·7	73·8	75·8	78·9	82·4	84·5	84·7	85·3	85·4
3	76·5	77·4	78·1	77·7	77·0	76·7	76·6	77·7	79·9	82·8	85·1	87·3	88·8	**89·0**	88·7
4	79·3	78·6	77·9	77·4	77·5	77·6	77·5	77·8	79·0	80·4	82·5	85·4	88·3	88·3	87·5
5	79·5	79·4	78·8	78·4	78·0	77·6	77·6	78·1	79·9	82·3	85·0	87·4	88·6	88·6	88·7
6	78·0	77·6	77·2	76·2	75·3	74·9	75·2	75·1	77·2	79·5	83·2	85·2	85·4	87·4	87·1
7	78·3	77·3	77·2	76·2	75·2	74·8	75·2	75·2	77·0	79·1	81·4	83·9	86·0	85·2	85·5
8	77·4	76·8	76·7	75·7	75·0	74·6	74·7	75·2	76·7	79·0	81·4	83·3	86·2	88·3	88·8
9	77·4	76·8	76·3	75·6	75·1	75·5	74·8	75·2	76·7	79·5	82·4	84·5	86·7	87·1	86·5
10	76·9	76·4	76·1	75·4	75·5	75·4	74·8	75·1	76·4	78·2	80·3	82·2	84·5	84·7	85·2
11	76·8	76·1	75·8	75·7	75·5	75·3	74·6	74·6	75·4	77·3	79·4	82·2	84·6	84·9	85·0
12	76·3	75·5	74·6	74·4	74·1	73·5	73·6	74·2	75·3	77·0	79.4	81·5	83·6	84·4	84·1
13	75·4	75·3	74·3	73·4	73·5	73·0	73·2	73·7	75·2	76·5	78·7	80·6	81·5	82·2	82·5
14	72·7	72·4	72·6	72·5	72·1	71·6	71·6	72·3	74·5	76·5	78·5	79·2	81·4	81·9	82·3
15	72·5	72·0	71·7	72·3	72·5	71·9	70·2	71·0	73·8	76·2	78·3	80·1	81·0	81·8	82·0
16	72·5	71·2	72·5	71·2	69·8	69·0	68·5	69·8	72·2	74·8	77·1	78·2	79·5	79·7	80·4
17	71·4	70·7	70·7	70·3	69·0	68·1	68·4	69·1	72·5	75·0	77·3	78·2	79·3	80·4	80·3
18	72·1	71·5	71·0	70·3	69·4	68·8	68·0	68·9	71·2	74·0	76·1	77·2	78·6	79·6	80·7
19	72·0	71 9	72·7	72·7	72·5	71·7	71·2	71·9	73·9	76·4	79·0	79·5	81·2	81·4	81·1
20	73.5	72·8	72·4	72·5	72·6	72·3	72·0	71·0	70·2	69·6	70·0	70·8	72·3	73·4	74·7
21	62·5	61·6	61·2	60·0	58·8	58·3	**57·5**	58·0	60·5	63·1	67·5	70·8	71·9	73·4	74·7
22	65·0	65·9	67·2	67·5	67·2	66·6	66·7	67·7	69·0	71·1	73·5	75·5	78·0	79·2	79·8
23	71·2	70·7	70·6	70·4	69·9	70·0	69·8	70·0	71·4	73·1	74·8	75·9	75·6	75·8	75·4
24	67·5	67·4	67·2	67·0	67·6	67·5	67·8	67·4	68·9	70·6	72·6	73·5	73·7	73·8	73·3
25	63·5	62·7	62·7	62·6	62·5	62·5	62·4	62·6	64·1	66·5	68·8	69·9	70·6	71·2	71·3
26	62·0	61·2	61·2	61·3	60·7	60·3	60·6	62·0	66·0	69·0	72·3	74·5	78·0	79·5	77·8
27	68·0	66·9	66·8	67·2	67·0	66·3	66·3	67·3	70·5	73·0	75·8	79·0	79·9	79·2	78·2
28	68·9	68·3	68·0	68·3	68·2	67·8	67·9	68·8	70·7	73·2	76·0	77·9	80·8	81·7	81·5
29	69·5	68·3	67·5	67·2	66·9	67·2	67·5	68·1	70·5	73·0	75·9	77·9	79·2	78·6	78·6
30	68·2	67·3	66·3	65·5	65·3	65·3	65·6	66·0	67·3	69·2	71·3	75·0	77·5	78·4	78·7
31	69·2	69·8	69·0	67·4	67·3	66·7	66·5	67·2	69·0	71·3	72·4	74·2	76·0	76·5	76·2
Mean .	72·3	71·8	71·7	71·2	70·8	70·5	**70·3**	70·9	72·7	74·9	77·3	79·2	80·9	**81·5**	81·5
Variation .	—3·0	—3·5	—3·6	—4·1	—4·5	—4·8	**—5·0**	—4·4	—2·6	—0·4	+2·0	+3 9	+5·6	**+6·2**	+6·2

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

NOVEMBER. (IN DEGREES FAHRENHEIT.)

Hours.									Mean.	Maximum.		Minimum.		Date.
15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24		Time.	Mag.	Time.	Mag.	
										H. M.		H. M.		
88·8	87·0	84·9	83·8	83·5	82·4	81·3	80·0	79·7	82·7	13 7	90·5	6 30	78·0	1
88·8	87·1	85·2	84·1	83·0	82·1	81·7	80·9	80·6	82·7	13 52	**90·8**	6 31	77·6	2
88·0	86·5	84·7	83·7	83·3	82·4	81·0	79·7	78·7	82·5	14 5	89·5	6 35	77·4	3
86·6	85·1	84·0	83·1	82·5	81·5	80·2	78·5	79·2	81·4	13 15	89·5	6 10	75·7	4
86·7	85·8	83·8	82·7	82·0	80·5	79·2	78·5	79·4	81·4	13 40	90·3	4 55	76·5	5
84·8	84·2	83·0	82·3	81·7	81·1	80·6	79·2	78·6	80·5	15 18	85·4	5 57	75·1	6
86·4	85·0	84·1	83·4	83·1	82·7	82·5	82·1	81·8	81·9	14 21	86·8	2 4	77·5	7
87·3	86·0	84·9	84·3	83·5	82·8	82·6	82·7	82·5	**83·7**	14 20	88·5	6 55	80·2	8
86·3	85·5	84·6	84 0	83·5	83·4	83·0	82·5	82·0	83·5	14 20	86·8	6 20	80·6	9
87·3	85·9	84·7	83·8	83·4	82·3	81·6	81·7	80·9	83·1	14 38	87·9	6 35	79·7	10
84·9	83·6	83·0	81·5	80·5	80·2	79·5	79.5	79·5	81·4	14 28	86·4	6 4	77·7	11
84·4	83·7	83·3	82·7	82·5	81·8	81·2	80·6	80·0	80·8	13 35	86·5	6 58	75·4	12
86·2	85·1	84·2	83·5	83·3	83·2	82·6	81·8	81·2	81·6	14 24	87·4	5 35	76·7	13
86·4	86·1	85·3	84·7	84·5	84·2	83·6	83·2	82·6	83·3	11 35	88·0	5 48	78·4	14
86·0	85 0	84·3	83·6	83·3	82·2	82·2	82·3	81·6	83·1	13 10	88·0	4 45	80·4	15
85·1	84·4	83·6	83·4	82·7	82·5	81·5	80·6	79·7	82·5	14 15	86·2	6 22	80·0	16
86·4	85·3	84·1	83·3	82·5	81·8	81·3	81·2	80·6	82·1	12 52	86·8	6 22	77·5	17
87·5	86·2	84·8	84·0	83·6	82·0	81·0	80·5	79·8	82·0	14 55	87·7	6 50	78·0	18
88·0	86·5	85·0	83·8	83·4	82·1	80·7	80·5	80·2	82·4	14 40	88·9	6 30	77·3	19
86·5	85·2	83·8	82·7	82·1	81·2	79·6	78·9	79·4	81·2	13 10	87·1	6 37	75·7	20
85·5	84·6	83·3	82·3	81·7	80·0	79·1	78·7	78·9	80·4	13 30	86·5	4 30	74·5	21
87·0	85·5	83·8	83·0	82·3	81·0	79·7	79·2	78·4	80·8	13 35	88·0	6 40	75·3	22
89·4	86·5	83·9	82·8	81·8	80·4	79·5	77·9	76·3	81·4	14 18	90·6	4 20	75·5	23
88·4	86·3	83·8	82·3	81·6	80·6	79·8	78·2	76·5	80·7	14 32	90·6	3 6	74·5	24
84·9	83·7	82·3	81·2	80·8	79·9	78·6	77·7	76·4	80·2	13 53	88·7	2 50	75·2	25
85·4	83·5	81·8	80·8	80·4	79·8	78·8	77·3	75·8	79·0	14 42	87·6	4 56	73·4	26
85·0	82·7	80·9	79·8	79·3	78·5	76·9	75·0	73·8	77·8	14 5	86·6	5 30	72·0	27
84·2	82·2	80·5	79·4	78·8	78·3	77·0	75·4	75·0	77·3	14 30	86·8	5 43	70·7	28
85·0	83·5	81·3	79·3	78·5	77·6	76·7	74·5	74·2	77·2	13 38	85·2	5 39	70·7	29
84·4	83·2	81·3	79·3	78·5	77·7	76·2	75·2	74·9	**76·9**	13 22	85·5	6 22	**70·6**	30
86·4	85·0	83·6	82·6	82·1	81·2	80·3	79·5	78·9	81·2					Mean.
+5·2	+3·8	+2·4	+1·4	+0·9	0·0	—0·9	—1·7	—2·3						Variation.

DECEMBER.

84·5	82·8	81·3	80·1	79·4	78·7	77·3	75·8	74·9	77·6	13 5	86·4	6 45	71·4	1
84·7	83·9	82·2	80·7	80·3	79·7	78·9	77·7	76·7	78·5	14 5	86 0	4 10	71·3	2
88·0	86·3	84·5	83·3	82·5	81·8	81·0	80·4	80·0	82·0	13 33	**89·5**	0 15	76·3	3
87·4	85·9	84·3	83·1	82·3	81·3	80·5	80·1	79·7	81·7	13 45	88·6	3 58	77·2	4
87·7	85·5	84·0	82·7	82·0	81·4	80·6	80·1	79·1	**82·1**	14 20	89·4	6 40	77·4	5
85·3	83·9	82·7	82·3	81·3	81·0	79·4	79·4	79·1	80·4	14 24	88·5	5 30	74·5	6
84·4	83·5	82·2	81·3	80·8	78·9	78·3	78·0	77·6	79·7	12 22	87·0	5 26	74·4	7
87·4	85·4	83·4	81·9	80·4	79·5	78·6	78·0	77·3	80·1	14 30	89·4	4 45	74·4	8
85·3	84·3	82·4	81·6	80·6	79·7	78·7	77·7	77·7	79·9	13 3	87·8	6 48	74·6	9
85·0	84·0	81·3	81·2	80·6	79·7	78·4	77·3	77·3	79·2	14 40	85·5	3 3	75·3	10
84·6	83·3	82·0	80·9	80·1	78·8	77·6	76·4	76·5	78·9	14 40	85·4	6 55	74·3	11
84·0	82·6	81·2	80·1	79·5	78·8	78·2	77·3	76·4	78·3	13 47	84·7	5 52	73·2	12
82·3	81·3	79·9	78·9	78·4	78·8	76·5	75·8	73·9	77·2	15 10	82·7	5 10	72·8	13
81·7	80·4	79·2	78·3	78·1	77·1	75·8	74·5	73·3	76·3	14 15	82·5	6 55	71·4	14
81·5	80·2	79·0	78·0	77·4	76·5	75·0	74·4	73·5	75·9	13 45	82·5	6 40	69·8	15
80·2	79·0	77·5	76·8	76·5	75·4	75·0	74·1	72·6	74·7	14 30	80·6	6 40	68·4	16
80·1	78·8	77·5	76·8	76·5	75·7	74·7	73·9	72·6	74·5	15 30	80·7	6 30	67·8	17
80·7	79·2	77·8	76·8	76·0	74·8	73·7	72·6	72·3	74·2	15 34	81·3	6 40	67·5	18
80·3	80·0	79·9	78·5	78·5	75·8	74·0	74·6	74·3	76·0	14 35	81·7	6 26	71·0	19
74·5	72·8	71·4	70·4	69·4	67·5	66·0	64·8	63·9	70·9	14 55	74·9	23 55	63·5	20
74·9	74·0	72·9	72·0	70·8	69·7	68·8	67·4	66·5	66·5	15 10	75·0	7 0	**57·3**	21
79·4	78·8	77·0	75·5	74·5	73·3	72·6	72·4	72·0	72·3	15 5	80·4	0 50	64·4	22
75·1	74·2	72·8	72·0	71·4	71·0	70·6	69·2	67·7	72·0	11 20	76·6	23 57	67·5	23
73·1	71·6	70·0	69·2	68·2	67·0	65·8	64·7	64·0	69·1	13 57	74·4	23 56	63·7	24
70·9	70·0	69·1	68·1	67·2	66·3	65·1	64·1	63·2	**66·2**	13 35	71·7	6 48	62·2	25
77·0	75·1	73·4	72·7	72·3	71·5	70·5	69·7	69·0	69·1	13 12	80·8	5 42	60·0	26
77·6	76·4	74·7	73·5	73·0	72·2	71·0	70·0	69·5	72·1	12 10	80·8	5 50	66·0	27
80·3	77·8	75·5	74·3	73·7	73·2	72·2	71·3	70·7	63·2	13 30	82·4	5 35	67·5	28
77·9	76·9	75·1	73·4	72·5	71·7	70·0	69·6	69·3	72·2	12 10	79·5	4 30	66·5	29
78·5	77·6	75·8	74·2	73·2	72·3	71·3	70·7	69·1	71·2	14 5	79·2	4 50	65·0	30
75·6	74·9	73·0	71·8	71·4	70·9	70·2	69·5	68·5	71·0	14 50	76·8	6 55	66·1	31
81·0	79·7	78·1	77·1	76·4	75·5	74·4	73·6	72·8	75·3					Mean.
+5·7	+4·4	+2·8	+1·8	+1·1	+0·2	—0·9	—1·7	—2·5						Variation.

JANUARY. (THE FIGURES REPRESENT PERCENTAGES.)

Date.	Hours.												
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13
1	57	53	54	54	49	50	50	51	47	47	46	41	45
2	61	62	69	60	55	61	63	63	60	56	55	54	42
3	79	79	77	81	75	72	75	76	74	68	59	52	48
4	80	70	68	68	70	66	65	70	66	63	59	55	53
5	70	68	65	62	65	68	66	68	61	61	53	42	35
6	80	78	72	68	66	66	66	65	62	57	51	45	32
7	80	81	75	66	71	68	64	60	58	58	47	35	27
8	64	63	68	71	68	66	69	67	63	60	61	48	44
9	71	70	76	77	75	74	76	76	72	66	66	62	62
10	79	81	82	82	81	81	79	76	75	75	67	64	57
11	65	61	58	60	54	53	59	69	66	64	59	57	57
12	67	69	73	76	74	67	58	61	69	65	62	60	58
13	81	74	70	74	78	80	81	76	73	73	66	61	67
14	76	76	78	79	75	70	67	77	63	57	58	53	51
15	81	84	85	85	84	84	85	83	80	75	68	70	68
16	87	89	85	87	87	88	86	85	82	79	76	73	71
17	88	90	90	89	88	89	89	91	88	85	79	75	73
18	88	87	89	88	87	86	86	85	71	66	66	59	57
19	64	65	65	66	69	68	67	65	57	50	46	49	50
20	73	71	71	82	84	85	87	77	63	62	65	56	52
21	59	55	56	51	51	49	52	54	48	46	46	42	40
22	65	67	66	66	70	67	74	73	71	65	55	51	42
23	76	75	75	77	82	82	78	76	73	70	66	59	44
24	86	85	85	85	83	85	84	79	75	74	69	60	56
25	72	77	85	86	86	87	85	82	75	70	56	47	52
26	86	88	88	88	86	89	89	89	86	83	78	71	62
27	83	83	72	70	69	74	81	83	84	89	89	79	75
28	81	78	69	76	80	76	75	77	72	69	65	59	54
29	60	60	63	64	64	58	59	56	54	47	44	42	40
30	51	51	55	51	46	46	47	47	42	39	35	35	36
31	42	41	32	26	31	30	34	32	30	26	27	28	26
Mean .	72·6	72·0	71·5	71·5	71·1	70·5	70·8	70·6	66·5	63·4	59·3	54·3	50·8
*Mean Vapour Pressure in inches of mercury.	·542	·529	·516	·513	·505	·495	·496	·501	·500	·509	·519	·506	·501

FEBRUARY.

1	38	40	41	41	31	28	33	37	36	31	31	28	23
2	46	40	37	41	42	44	42	40	45	43	43	34	27
3	65	62	64	62	65	66	59	60	58	58	54	50	43
4	66	65	65	56	59	64	65	65	53	55	51	52	56
5	74	76	75	80	79	74	75	74	69	64	57	56	52
6	76	79	81	82	81	82	81	81	76	73	65	67	67
7	88	88	88	88	89	89	88	89	85	81	72	66	62
8	89	90	89	88	87	87	87	87	84	81	74	67	64
9	84	84	85	87	87	87	86	86	84	80	79	68	56
10	76	75	80	82	83	85	84	83	80	67	59	55	51
11	71	71	75	74	64	61	60	59	52	44	39	42	47
12	58	56	65	75	71	70	73	72	64	63	61	52	45
13	80	81	83	85	85	86	86	81	71	65	54	49	46
14	76	77	79	79	72	71	70	66	60	52	50	51	49
15	72	71	72	80	76	72	75	64	60	59	45	55	57
16	76	77	83	84	83	81	79	76	69	67	63	55	68
17	69	69	58	58	58	61	72	67	60	63	33	53	62
18	67	74	77	77	79	65	66	73	66	55	51	47	52
19	65	67	73	67	65	65	63	63	51	56	48	50	61
20	76	69	69	81	82	77	68	61	63	61	53	52	53
21	82	84	82	88	89	89	87	88	76	73	64	61	63
22	88	89	90	90	92	91	91	89	81	72	66	62	64
23	80	76	75	76	72	72	73	76	68	65	60	65	62
24	80	83	87	88	82	74	68	74	63	63	60	55	52
25	80	79	83	86	84	70	69	64	64	60	41	29	50
26	82	84	84	74	72	73	73	72	70	65	57	61	69
27	91	91	91	90	90	90	91	90	87	86	82	78	77
28	87	87	87	86	83	84	86	83	74	68	68	65	68
Mean .	74·4	74·4	75·6	76·6	75·1	73·5	73·2	72·1	66·7	62·9	56·3	54·5	55·2
*Mean Vapour Pressure in inches of mercury.	·581	·573	·576	·578	·557	·536	·527	·535	·537	·543	·528	·544	·564

*Computed from mean temperatures and mean relative humidities.

JANUARY. (THE FIGURES REPRESENT PERCENTAGES.)

Hours.											Mean.	* Mean Vapour Pressure.	Date.
13—14	14—15	15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24			
												"	
49	51	55	57	63	63	63	61	60	65	64	54·0	·405	1
47	61	63	66	69	71	70	72	72	71	75	62·4	·514	2
57	57	62	70	74	77	77	70	73	71	73	69·8	·583	3
55	57	60	62	63	65	67	68	64	61	65	64·2	·543	4
30	30	56	65	71	68	68	70	74	77	78	61·3	·533	5
29	25	29	58	67	73	75	74	78	78	75	61·2	·537	6
23	32	51	62	70	68	71	71	67	63	62	59·6	·523	7
43	54	57	69	73	70	62	63	60	59	68	62·1	·588	8
62	64	67	72	76	76	71	69	77	78	77	71·3	·673	9
57	55	61	63	63	63	66	65	63	63	63	69·2	·647	10
63	68	69	71	71	75	75	71	66	60	63	63·9	·580	11
59	65	71	76	80	84	84	78	69	69	76	69·6	·628	12
68	66	67	66	69	73	75	77	80	82	81	73·3	·665	13
52	56	57	61	69	74	76	79	81	86	85	69·0	·604	14
67	67	67	71	77	79	83	83	82	85	89	78·4	·642	15
70	69	71	71	74	76	78	83	85	88	87	80·3	·651	16
70	72	72	76	77	82	83	87	84	85	87	82·9	·697	17
57	51	50	51	49	53	57	55	63	71	68	68·3	·559	18
51	55	57	64	66	68	70	72	74	78	75	62·9	·493	19
53	52	52	56	57	57	53	58	52	55	59	63·8	·505	20
39	39	38	41	46	49	53	55	58	59	60	49·4	·380	21
49	49	54	57	64	70	74	75	71	74	78	64·5	·497	22
44	54	58	64	71	77	79	82	87	87	85	71·7	·595	23
58	54	59	66	75	76	78	83	84	86	85	75·4	·636	24
56	66	73	77	79	83	84	84	86	85	85	75·7	·632	25
59	60	62	65	68	72	75	78	80	81	82	77·7	·653	26
70	68	67	70	71	74	74	73	73	78	79	76·2	·609	27
53	55	50	60	61	60	60	59	64	63	61	65·7	·487	28
39	36	36	38	39	45	52	52	54	55	52	50·4	·368	29
35	41	46	46	45	50	55	55	48	48	44	45·6	·307	30
30	32	38	42	41	44	48	45	40	39	40	35·2	·199	31
51·4	53·6	57·3	62·4	65·7	68·2	69·5	69·9	70·0	71·0	71·6	65·6	·546	Mean.
" ·518	" ·541	" ·567	" ·587	" ·588	" ·585	" ·586	" ·574	" ·561	" ·551	" ·542	" ·537		*Mean Vapour Pressure in inches of mercury.

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28	39	47	54	57	56	55	51	54	50	45	40·6	·248	1
22	31	49	54	59	65	62	57	55	56	61	45·6	·347	2
48	53	52	54	65	66	61	67	66	60	62	59·2	·462	3
54	59	60	64	65	65	68	72	74	70	69	62·2	·474	4
57	60	66	71	71	69	70	71	68	65	71	68·5	·553	5
64	61	70	75	78	81	85	87	87	86	86	77·1	·653	6
62	62	65	70	71	74	77	79	82	84	87	78·6	·679	7
64	62	62	61	64	68	71	74	78	82	84	76·8	·639	8
52	55	58	59	63	65	63	67	72	75	78	73·2	·597	9
54	54	54	54	55	53	53	58	54	51	60	65·0	·541	10
53	57	59	60	63	62	63	59	58	60	57	58·8	·483	11
49	54	58	62	69	74	77	79	80	82	83	66·3	·576	12
52	52	52	56	61	65	66	65	64	65	69	67·5	·579	13
47	47	44	45	49	57	63	67	69	67	70	61·5	·517	14
55	60	61	64	67	69	66	65	63	65	68	65·0	·576	15
65	64	67	68	73	78	76	76	72	68	67	72·3	·663	16
64	60	62	62	65	66	67	66	70	70	63	62·0	·561	17
59	61	58	55	56	58	61	64	65	57	61	62·7	·551	18
62	61	60	56	54	54	56	61	59	61	69	60·3	·531	19
58	52	50	58	67	71	74	78	80	82	80	67·3	·577	20
61	64	67	71	76	82	83	84	85	87	86	78·0	·701	21
64	65	69	73	73	81	81	79	79	79	81	78·5	·709	22
60	62	61	63	66	70	72	75	79	81	82	70·5	·636	23
55	59	64	68	70	76	80	79	76	75	77	71·2	·672	24
41	47	55	59	58	61	63	67	65	71	80	63·6	·637	25
73	75	75	78	83	88	88	86	88	91	91	77·2	·758	26
76	72	74	74	75	80	80	81	83	84	85	83·3	·805	27
70	64	57	58	62	68	70	72	76	77	77	74·0	·692	28
56·0	57·6	59·9	62·4	65·7	68·6	69·7	70·9	71·5	71·5	73·2	67·4	·586	Mean.
" ·582	" ·598	" ·614	" ·617	" ·616	" ·617	" ·615	" ·612	" ·601	" ·585	" ·587	" ·580		*Mean Vapour Pressure in inches of mercury.

* Computed from mean temperatures and mean relative humidities.

MARCH. (THE FIGURES REPRESENT PERCENTAGES.)

Date.	Hours.												
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13
1	81	84	84	81	74	71	74	79	71	72	74	72	71
2	90	88	83	87	87	87	83	79	70	65	62	61	64
3	88	90	91	93	90	92	90	89	81	73	62	53	54
4	86	84	78	77	80	83	82	84	76	69	65	55	55
5	71	74	71	75	66	68	70	74	72	70	64	61	66
6	86	86	83	78	80	84	88	85	81	79	73	57	60
7	78	77	74	63	65	67	69	77	66	66	48	50	63
8	84	85	87	86	87	87	86	84	72	68	62	47	49
9	87	90	90	88	90	87	82	83	80	76	76	78	74
10	80	81	80	81	86	86	86	85	80	78	73	70	69
11	75	76	76	80	81	79	80	79	81	74	71	67	66
12	84	84	86	86	85	86	88	85	81	76	73	71	70
13	87	87	88	88	90	90	90	87	84	75	69	62	64
14	84	85	83	84	82	83	72	76	75	66	54	50	54
15	75	78	76	75	79	81	77	76	73	65	57	56	59
16	84	87	86	85	84	86	88	86	80	76	74	72	70
17	82	82	82	83	83	85	86	84	81	76	71	71	70
18	82	83	82	80	81	81	83	84	81	77	70	69	65
19	82	83	84	83	84	85	87	85	80	77	75	74	71
20	65	68	69	70	66	69	70	65	60	61	52	38	45
21	53	76	81	80	77	78	77	75	70	62	54	50	60
22	79	77	78	79	80	80	81	79	73	71	65	54	58
23	69	66	70	72	72	73	72	68	60	60	59	58	59
24	81	81	80	79	77	73	74	66	56	57	59	60	61
25	73	78	80	81	81	78	72	77	71	62	62	62	62
26	74	73	74	72	73	71	74	73	65	57	55	56	52
27	67	75	78	77	74	72	68	70	58	56	60	59	55
28	81	82	84	85	87	86	84	82	75	68	67	67	65
29	77	80	82	83	84	84	86	85	81	69	64	61	61
30	72	74	78	78	80	80	79	76	76	72	66	65	61
31	77	79	87	74	74	76	76	73	70	66	65	65	63
Mean .	78·5	80·4	80·8	80·1	80·0	80·3	79·8	79·0	73·5	69·0	64·5	61·0	61·8
*Mean Vapour Pressure in inches of mercury.	" ·792	" ·798	" ·789	" ·774	" ·763	" ·756	" ·746	" ·769	" ·769	" ·762	" ·753	" ·745	" ·779

APRIL.

1	75	78	80	82	81	80	81	76	70	62	60	64	67
2	76	74	77	68	65	62	71	62	52	50	45	42	55
3	83	85	83	85	83	82	81	80	77	76	74	69	67
4	76	77	79	81	80	80	82	81	75	72	67	65	60
5	74	76	78	78	78	78	78	77	73	67	64	63	62
6	78	78	79	80	80	81	84	81	79	75	68	67	64
7	77	79	77	77	76	78	76	73	72	66	61	61	63
8	65	69	69	75	70	73	77	69	57	60	57	61	63
9	73	77	77	77	77	78	78	75	73	71	67	64	63
10	58	59	62	68	68	72	74	71	67	62	63	57	59
11	77	80	82	82	83	83	81	78	74	70	67	64	62
12	77	77	80	81	80	81	77	71	61	59	60	59	59
13	69	70	71	73	71	64	65	59	51	51	55	55	56
14	82	82	85	84	84	83	84	80	75	73	70	66	65
15	87	83	82	81	83	87	85	82	72	69	62	59	63
16	81	81	81	80	81	82	83	81	76	71	70	69	68
17	77	78	79	77	78	80	80	79	74	72	71	68	68
18	73	77	79	79	78	79	79	76	73	68	67	65	68
19	79	79	78	80	81	82	83	81	81	77	71	68	66
20	65	66	67	68	67	69	67	59	52	53	52	49	49
21	76	77	75	79	83	82	79	69	59	52	43	54	56
22	70	71	71	74	74	74	72	68	62	56	56	49	51
23	71	71	68	71	69	70	72	75	72	68	59	56	56
24	73	70	70	72	74	76	75	69	69	64	59	60	57
25	73	73	73	73	76	78	76	72	70	68	65	62	60
26	72	72	73	74	75	76	77	78	76	74	68	62	62
27	71	71	73	73	74	77	76	73	69	67	64	62	59
28	72	72	73	75	73	73	76	71	70	68	64	63	63
29	79	78	77	77	77	76	75	74	70	68	66	64	61
30	79	80	75	77	79	76	77	73	70	67	65	65	63
Mean .	74·6	75·3	75·8	76·7	76·6	77·1	77·4	73·8	69·0	65·9	62·7	61·1	61·0
*Mean Vapour Pressure in inches of mercury.	" ·827	" ·827	" ·824	" ·829	" ·819	" ·817	" ·831	" ·829	" ·816	" ·815	" ·811	" 815	" ·835

*Computed from mean temperatures and mean relative humidities.

MARCH. (THE FIGURES REPRESENT PERCENTAGES).

Hours.											Mean.	*Mean Vapour Pressure.	Date.
13—14	14—15	15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24			
												"	
71	69	69	71	76	80	82	83	84	86	87	76·9	·710	1
60	60	62	67	71	78	81	84	85	86	87	76·1	·723	2
63	60	64	68	74	78	76	78	81	84	85	77·4	·743	3
62	60	61	66	71	74	72	75	79	75	73	72·6	·728	4
66	67	67	68	72	76	78	82	83	85	85	72·1	·730	5
60	56	55	62	65	66	65	77	80	77	78	73·4	·788	6
68	67	61	63	71	75	79	82	83	81	86	70·0	·761	7
62	62	64	72	73	78	78	81	84	80	82	75·0	·794	8
70	66	64	64	68	72	75	78	78	78	79	78·0	·829	9
69	68	66	66	70	73	72	73	74	76	76	75·7	·802	10
64	64	66	68	72	74	75	78	79	81	83	74·5	·764	11
68	62	67	72	76	78	80	82	82	84	85	**78·8**	·790	12
64	64	66	68	70	73	74	75	76	78	81	77·1	·796	13
51	52	55	53	53	57	63	62	61	75	78	67·0	·740	14
63	66	68	69	70	73	75	78	81	83	84	72·4	·792	15
67	66	68	70	71	75	77	78	79	81	82	78·0	·837	16
68	68	67	68	71	75	77	79	79	81	82	77·1	·844	17
67	65	65	67	70	75	74	77	79	80	81	75·7	·853	18
71	71	70	69	54	46	55	57	59	60	63	71·9	·839	19
54	51	48	52	69	74	73	75	78	77	76	63·5	·763	20
63	62	65	61	63	68	70	72	73	74	77	68·4	·822	21
58	56	50	46	50	53	56	61	66	69	69	66·2	·768	22
60	58	57	57	61	65	69	71	74	75	79	65·9	·752	23
62	61	64	66	65	66	66	71	75	76	73	68·7	·789	24
59	57	53	53	56	60	66	70	68	69	71	67·5	·784	25
51	46	41	40	42	47	55	62	64	68	66	**60·5**	·729	26
63	63	61	62	63	70	75	77	79	79	79	68·3	·813	27
65	66	67	68	67	76	79	81	80	81	78	75·9	**·880**	28
60	62	65	65	65	56	60	64	68	67	67	70·7	·774	29
57	49	45	44	52	58	62	65	68	72	74	66·8	·738	30
60	58	55	56	58	64	67	69	71	73	74	68·7	·772	31
62·8	61·4	61·2	62·6	65·5	68·8	71·2	74·1	75·7	77·1	78·1	72·0	·782	Mean.
"	"	"	"	"	"	"	"	"	"	"	"		*Mean Vapour Pressure in inches of mercury.
·802	·786	·776	·774	·774	·778	·784	·798	·802	·804	**·806**	·783		

APRIL.

68	67	64	62	60	63	65	66	71	73	78	70·5	·815	1
52	57	59	60	60	65	68	74	78	79	79	63·7	·773	2
64	63	62	59	59	61	66	68	72	73	75	72·8	·858	3
57	56	55	57	60	63	64	66	68	70	73	69·3	·801	4
59	59	58	59	61	66	69	73	75	77	78	70·0	·804	5
62	63	65	67	70	73	72	73	73	74	76	73·4	·838	6
62	64	62	65	64	64	65	67	72	74	69	69·3	·806	7
62	61	61	63	65	67	68	70	71	73	75	66·7	·796	8
63	63	62	64	63	65	59	55	53	55	55	67·0	·823	9
58	55	60	67	70	59	60	72	75	76	77	65·4	·788	10
60	63	63	63	64	68	71	72	72	75	75	72·0	·838	11
54	48	46	47	43	49	49	58	62	65	65	62·8	**·738**	12
57	60	61	64	68	73	77	79	81	81	82	66·4	·765	13
64	66	69	72	76	79	79	80	81	83	84	**76·9**	·866	14
62	66	66	70	72	74	76	76	77	79	79	74·7	·898	15
68	68	67	68	74	77	78	77	79	77	77	75·6	**·932**	16
68	68	68	66	69	68	66	67	69	70	73	72·2	·876	17
62	62	60	59	63	67	70	72	75	77	78	70·9	·852	18
61	60	55	50	52	56	56	59	64	66	62	68·6	·835	19
51	54	56	56	61	64	66	66	67	68	70	**60·9**	·782	20
61	57	57	57	59	62	63	63	65	65	64	64·9	·839	21
51	54	58	65	69	72	75	76	76	73	69	66·1	·833	22
53	51	55	58	64	72	71	72	71	71	75	66·3	·794	23
55	59	60	63	66	70	71	71	71	72	73	67·5	·775	24
58	59	62	64	67	71	72	72	73	71	72	69·2	·816	25
59	59	60	62	64	67	69	69	70	69	70	69·0	·816	26
58	59	61	62	64	69	69	70	71	71	72	68·1	·816	27
62	63	66	67	68	72	73	75	76	77	77	70·4	·854	28
60	63	65	69	69	72	74	75	78	77	77	71·7	·881	29
62	63	65	67	72	78	76	75	78	80	76	72·4	·910	30
59·8	60·3	60·9	62·4	64·5	67·5	68·6	70·3	72·1	73·0	73·5	69·2	·827	Mean.
"	"	"	"	"	"	"	"	"	"	"	"		*Mean Vapour Pressure in inches of mercury.
·826	·831	·828	·822	·816	·816	·814	·823	**·836**	·836	·828	·829		

*Computed from mean temperatures and mean relative humidities.

MAY. (THE FIGURES REPRESENT PERCENTAGES.)

Date.	Hours.												
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13
1	80	81	81	82	84	84	82	79	75	72	73	68	66
2	79	79	78	80	81	80	81	79	74	73	69	68	66
3	78	77	77	77	75	77	82	80	76	74	70	71	68
4	83	82	79	82	86	86	85	82	78	75	73	73	70
5	80	79	78	78	78	79	78	77	73	71	71	71	70
6	78	77	77	77	77	75	76	74	69	67	65	63	64
7	77	76	75	75	76	77	76	72	69	68	64	64	65
8	77	77	78	78	78	77	76	74	69	69	66	65	63
9	76	76	77	76	75	75	75	72	71	68	66	63	65
10	77	75	76	76	79	80	81	78	74	68	65	63	61
11	78	77	75	74	78	78	77	73	75	66	60	61	58
12	71	70	71	71	71	71	67	67	64	62	59	58	58
13	72	73	72	73	74	74	74	70	68	65	64	62	61
14	74	74	75	76	76	74	72	69	66	63	60	60	59
15	74	75	75	75	75	75	74	70	69	65	63	62	63
16	73	71	74	72	73	75	73	70	67	65	61	61	60
17	71	71	69	69	71	67	69	66	63	59	57	57	55
18	77	75	75	76	77	77	77	77	76	71	69	68	67
19	79	78	79	80	79	80	80	77	74	73	74	74	73
20	72	77	77	77	79	81	80	79	71	66	70	63	60
21	77	76	75	77	76	75	72	70	67	65	64	63	61
22	73	72	75	75	75	75	75	70	67	66	65	64	63
23	75	75	76	76	75	76	76	74	69	66	64	65	63
24	73	74	74	74	75	74	74	70	67	64	63	63	61
25	73	73	72	71	70	71	71	72	65	64	61	60	59
26	71	72	74	75	76	76	74	73	71	66	61	62	62
27	74	74	75	76	75	74	74	72	71	69	67	65	64
28	77	77	77	77	77	77	78	74	73	70	66	64	64
29	74	74	74	76	76	75	75	71	68	66	61	60	60
30	75	76	74	75	74	74	73	70	68	67	65	63	63
31	75	75	79	80	77	77	78	75	71	68	66	65	65
Mean .	75·6	75·4	75·6	76·0	76·4	76·3	76·0	73·4	70·3	67·4	65·2	64·2	63·1
*Mean Vapour Pressure in inches of mercury.	·900	·892	·885	·887	·886	·882	·896	·899	·903	·900	·901	·904	·905

JUNE.

1	75	80	80	79	78	79	79	77	78	69	67	66	63
2	73	74	74	73	74	75	75	73	67	68	66	66	66
3	87	88	89	89	89	87	87	87	83	81	79	77	76
4	82	84	87	87	86	86	85	83	81	80	79	76	76
5	83	83	84	83	82	82	85	85	85	83	77	74	79
6	91	92	90	91	93	94	91	91	90	89	87	82	86
7	93	92	92	91	93	90	91	91	91	90	87	90	89
8	89	91	88	90	86	90	87	87	86	83	83	80	81
9	85	85	84	81	81	80	81	81	79	79	78	76	75
10	79	79	79	79	79	78	78	77	76	74	75	73	73
11	77	75	75	77	78	77	78	75	74	72	72	70	71
12	78	77	78	77	76	77	77	77	74	71	71	77	75
13	84	83	85	79	81	82	84	84	82	79	78	75	74
14	79	80	87	87	86	88	87	88	90	90	91	89	88
15	87	88	89	87	85	86	87	87	85	84	83	81	80
16	87	87	86	86	86	84	84	84	84	83	79	77	75
17	91	90	91	90	89	89	90	89	89	86	87	93	93
18	91	90	92	90	90	89	86	87	84	85	83	83	82
19	85	84	84	86	88	86	86	85	82	81	79	81	81
20	87	87	87	87	89	89	89	88	86	84	83	81	79
21	86	85	87	89	91	91	93	93	90	90	88	88	90
22	91	92	93	93	92	91	95	92	93	91	89	87	85
23	87	88	86	85	86	87	87	86	86	85	85	83	82
24	90	91	91	92	90	91	92	93	93	93	93	92	91
25	93	93	92	93	91	91	91	92	93	92	90	91	92
26	90	91	93	93	93	91	94	94	91	90	89	88	85
27	89	89	86	86	87	87	86	86	83	81	80	79	79
28	83	83	83	82	83	84	85	83	81	78	77	77	77
29	87	88	87	88	85	84	86	87	86	85	81	79	78
30	89	87	88	86	85	84	85	87	90	90	87	88	87
Mean .	85·6	85·9	86·2	85·9	85.7	85·6	86·0	85·6	84·4	82·9	81·4	80·6	80·3
*Mean Vapour Pressure in inches of mercury.	·910	·907	·901	·892	·890	·889	·899	·904	·918	·922	·935	·938	·943

* Computed from mean temperatures and mean relative humidities.

MAY. (THE FIGURES REPRESENT PERCENTAGES.)

Hours.											Mean.	*Mean Vapour Pressure.	Date.
13—14	14—15	15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24			
												"	
66	64	63	65	68	72	74	77	77	76	78	74·5	·927	1
66	66	68	68	68	70	72	73	75	76	77	73·6	·943	2
68	70	71	71	72	74	75	76	78	80	84	75·0	·967	3
70	70	72	73	75	78	78	80	80	80	80	**77·9**	**1·106**	4
67	68	70	69	72	76	76	78	77	76	77	74·5	·963	5
62	65	65	67	68	70	72	73	75	73	75	71·0	·912	6
65	64	64	66	71	73	76	76	76	77	78	71·6	·908	7
63	62	63	63	67	70	72	74	76	76	76	71·2	·900	8
63	63	63	64	67	71	74	74	75	76	76	70·9	·897	9
62	64	64	67	69	73	75	75	78	76	78	72·3	·894	10
59	58	60	59	62	66	70	70	70	71	72	68·6	·832	11
58	60	60	63	65	69	69	70	72	72	74	66·3	**·825**	12
62	61	61	63	66	69	72	72	74	72	73	68·6	·879	13
57	58	60	63	64	68	69	70	74	74	74	67·9	·881	14
62	62	61	62	66	69	70	72	72	72	72	69·0	·889	15
60	58	59	63	66	68	68	70	72	71	70	67·5	·859	16
57	58	60	62	66	68	72	74	75	76	76	**66·2**	·829	17
67	66	67	69	73	76	76	77	78	80	81	73·8	·936	18
71	66	69	70	72	73	73	74	78	80	75	75·0	·930	19
61	59	58	57	61	70	72	76	76	76	77	70·6	·904	20
58	59	60	63	66	69	70	72	73	73	73	68·9	·868	21
62	62	62	65	67	71	70	73	75	72	74	69·5	·887	22
62	62	61	61	64	67	69	70	75	72	71	69·3	**·890**	23
60	60	61	61	64	67	69	70	70	71	70	67·9	·881	24
60	59	60	62	64	68	70	70	71	72	71	67·0	·855	25
60	60	62	65	68	70	73	74	75	75	73	69·5	·899	26
65	64	67	66	69	73	75	75	76	77	78	71·5	·927	27
63	63	64	63	66	71	72	74	74	75	73	71·2	·926	28
60	60	61	63	66	70	72	74	74	75	75	69·2	·889	29
62	63	62	65	69	71	72	73	74	76	76	70·0	·917	30
65	64	66	68	68	72	73	73	75	75	76	71·9	·945	31
62·7	**62·5**	63·4	64·7	67·4	70·7	72·3	73·5	74·8	74·9	75 3	70·7	·905	Mean.
"	"	"	"	"	"	"	"	"	"	"	"		*Mean Vapour Pressure in inches of mercury.
·908	·905	·907	·903	·899	·900	·900	·903	**·913**	·906	·905	·903		

JUNE.

63	**62**	62	66	69	72	73	76	74	76	75	72·4	·939	1
68	68	67	68	73	74	74	78	77	78	80	**72·0**	·943	2
75	73	75	76	78	80	81	83	83	82	82	82·0	**·979**	3
73	72	76	74	76	74	79	79	80	83	83	80·0	·955	4
85	93	93	88	89	89	88	89	92	93	91	85·6	·919	5
91	90	84	88	88	86	86	88	91	92	92	89·3	**·835**	6
90	89	86	87	85	88	88	87	86	85	86	89·0	·901	7
80	83	87	86	86	88	86	83	87	86	83	85·7	·941	8
74	74	74	75	76	76	78	79	80	79	79	78·7	·937	9
74	72	73	72	74	76	77	78	78	77	78	76·2	·930	10
68	69	69	71	70	74	76	77	77	79	79	74·2	·912	11
79	77	75	72	76	78	78	77	79	80	81	76·5	·907	12
80	81	84	81	86	85	85	83	83	80	79	81·5	·901	13
87	86	85	85	86	88	89	89	90	87	88	87·1	·911	14
79	77	79	81	80	79	79	82	81	86	84	83·2	·905	15
75	74	74	74	73	76	85	81	82	85	90	81·3	·861	16
90	89	88	86	88	85	86	89	89	90	89	89·0	·889	17
81	77	79	77	76	81	83	83	84	85	82	84·2	·880	18
79	79	79	79	81	82	84	85	87	87	89	83·3	·903	19
79	79	78	77	78	81	81	83	84	86	86	83·7	·940	20
91	92	92	89	87	91	92	89	88	91	91	89·7	·935	21
86	87	85	81	79	84	84	85	87	87	88	88·2	·904	22
82	84	85	84	85	84	85	87	87	87	88	85·5	·954	23
89	87	85	87	91	92	90	90	89	91	91	**90·6**	·932	24
90	87	87	90	89	88	91	89	89	89	89	90·5	·913	25
82	82	84	87	88	91	88	89	88	85	89	89·0	·909	26
81	81	82	84	83	84	84	83	86	85	85	84·0	·893	27
78	79	82	82	83	84	85	85	86	86	87	82·2	·902	28
76	78	80	82	83	86	85	86	89	89	89	84·3	·919	29
88	90	88	89	89	90	90	90	89	89	86	88·0	·888	30
80·4	80·4	80·6	80·6	81·5	82·9	83·7	84·1	84·7	85·2	85·3	83·6	·915	Mean.
"	"	"	"	"	"	"	"	"	"	"	"		*Mean Vapour Pressure in inches of mercury.
·935	·935	·935	·923	·915	·913	·916	·917	·915	·917	·909	·918		

* Computed from mean temperatures and mean relative humidities.

JULY. (THE FIGURES REPRESENT PERCENTAGES.)

Date.	Hours.													
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13	13—14
1	89	90	89	89	91	89	91	89	88	87	91	90	89	86
2	90	90	91	89	91	91	92	91	90	83	81	81	79	81
3	93	91	92	91	92	92	91	92	91	91	87	88	89	90
4	88	88	91	91	92	89	88	88	87	87	86	88	83	89
5	87	87	87	85	86	85	84	85	88	88	89	87	87	86
6	88	88	87	87	87	88	86	87	87	85	87	90	89	87
7	91	93	95	95	93	91	90	89	85	83	83	82	81	82
8	85	86	86	86	87	87	87	86	84	82	81	81	79	80
9	85	85	87	85	86	84	85	87	91	87	85	83	84	83
10	92	93	90	88	87	86	87	87	89	89	89	87	90	93
11	90	90	86	86	91	91	89	87	91	91	88	88	85	84
12	83	83	87	86	84	85	85	83	81	81	79	81	81	85
13	83	82	81	81	81	81	81	81	82	81	83	84	82	80
14	82	81	81	80	81	82	80	80	79	77	79	77	77	77
15	85	84	85	85	85	86	91	86	86	85	83	81	79	79
16	84	85	84	84	86	86	85	83	83	81	80	77	77	79
17	83	86	86	85	84	84	85	84	84	81	80	80	80	78
18	85	84	85	85	85	87	85	83	86	85	80	82	81	81
19	86	86	85	85	85	85	85	85	85	84	83	86	87	86
20	86	91	86	87	87	90	91	87	87	85	83	81	83	82
21	87	85	85	88	85	85	84	84	82	80	78	77	77	76
22	84	83	84	83	83	83	83	82	82	81	79	79	79	77
23	84	83	85	86	84	83	82	82	80	81	83	80	77	79
24	83	83	83	81	82	77	77	77	79	79	79	82	83	83
25	83	84	84	85	83	83	83	84	85	82	80	79	76	78
26	85	87	85	86	83	83	84	87	84	84	78	77	77	83
27	84	84	84	85	84	84	84	82	85	82	75	79	77	77
28	83	83	85	80	84	86	86	83	82	81	78	79	77	75
29	84	85	85	84	84	84	83	82	80	77	76	75	76	68
30	85	84	84	83	84	84	85	82	80	80	77	76	77	77
31	85	84	84	90	85	85	84	82	81	81	78	77	77	77
Mean . .	85·9	86·1	86·1	85·8	85·9	85·7	85·7	84.7	84·6	83·3	81·9	81·7	81·1	81·2
*Mean Vapour Pressure in inches of mercury.	·904	·900	·897	·888	·892	·884	·896	·894	·908	·912	·914	·923	·923	·918

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1	86	84	87	86	84	86	84	83	83	82	88	90	84	82
2	87	88	91	91	89	89	86	84	85	83	82	78	79	78
3	87	85	86	87	87	89	87	84	83	83	81	81	78	78
4	86	85	87	88	86	85	81	82	81	80	79	78	77	78
5	83	83	82	83	83	83	83	83	83	84	83	84	85	78
6	86	86	87	87	82	80	83	83	82	81	79	75	75	76
7	82	82	82	83	83	83	85	84	82	80	77	79	76	75
8	83	83	82	81	83	80	85	84	82	82	77	80	82	77
9	81	81	81	83	83	80	80	82	79	77	75	74	75	77
10	82	82	80	84	85	86	83	83	81	79	79	79	86	86
11	84	82	85	85	82	82	85	84	84	79	78	77	74	76
12	83	82	80	82	82	85	81	83	81	77	75	75	73	74
13	81	80	82	83	82	81	82	79	80	76	75	74	72	75
14	82	80	80	81	80	81	80	81	79	77	75	74	72	72
15	80	81	82	81	81	83	81	82	86	82	82	82	85	85
16	84	83	82	82	81	85	85	86	84	83	81	76	76	75
17	80	82	83	82	80	83	86	85	82	82	76	74	73	75
18	80	80	82	82	86	85	83	84	89	91	84	79	79	73
19	80	82	82	81	82	81	83	82	83	82	79	76	77	73
20	83	82	82	82	82	82	86	82	82	80	81	77	76	75
21	82	83	83	82	82	80	75	78	79	82	82	84	82	83
22	86	84	86	86	85	85	85	81	80	82	86	90	86	81
23	83	82	83	83	83	81	81	80	76	74	78	75	76	77
24	82	82	87	86	83	84	86	86	86	85	84	79	79	77
25	82	82	80	83	82	80	83	86	92	91	91	82	80	79
26	82	82	82	82	82	83	84	84	86	84	84	82	79	79
27	84	83	82	82	83	84	83	83	81	80	78	78	77	77
28	85	86	85	86	86	85	86	84	85	82	78	77	79	78
29	84	84	84	84	85	85	86	82	80	77	77	75	74	74
30	82	81	81	82	81	81	82	81	78	77	75	75	74	73
31	80	79	79	78	78	78	80	84	84	84	84	83	87	86
Mean . .	83·0	82·6	83·1	83·5	83·0	83·1	83·2	82·9	82·5	81·2	80·1	78·8	78·3	77·5
*Mean Vapour Pressure in inches of mercury.	·851	·844	·838	·842	·834	·833	·831	·844	·857	·866	·871	·873	·874	·876

*Computed from mean temperatures and mean relative humidities.

JULY. (THE FIGURES REPRESENT PERCENTAGES.)

Hours.										Mean.	*Mean Vapour Pressure in inches of Mercury.	Date.
14—15	15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24			
											"	
90	88	88	88	87	85	90	90	90	91	89·0	·901	1
83	81	83	83	87	89	91	93	95	94	87·5	·930	2
85	84	85	85	85	86	87	86	87	88	86·8	·919	3
87	82	81	83	84	85	86	85	87	87	86·7	·930	4
85	83	85	86	86	86	88	89	89	88	86·5	·953	5
85	84	85	86	89	87	87	89	90	91	87·3	·934	6
81	82	82	83	83	85	85	85	86	86	86·3	·954	7
78	78	79	79	80	83	83	83	83	84	82·8	·948	8
85	85	83	82	82	83	89	89	88	90	85·5	·915	9
93	93	93	93	92	91	91	91	91	90	90·2	·889	10
79	83	89	90	85	86	83	82	84	84	86·7	·895	11
82	81	83	85	87	85	85	82	81	83	83·3	·897	12
81	80	81	81	83	83	85	84	82	82	81·9	·893	13
78	77	80	81	82	82	83	85	85	85	80·5	·895	14
77	78	79	86	86	86	84	84	85	85	83·8	·902	15
81	79	79	81	81	82	83	83	84	84	82·1	·898	16
81	83	81	84	84	84	85	85	85	84	83·2	·907	17
81	82	85	86	85	86	87	87	89	87	84·5	·913	18
83	83	85	83	83	83	84	87	86	86	84·8	·901	19
83	85	88	86	86	86	86	87	87	87	86·1	·921	20
77	77	79	79	83	84	84	83	85	85	82·0	·897	21
77	79	78	79	81	82	83	83	83	85	81·3	·895	22
79	80	80	81	79	82	84	86	84	84	82·0	·900	23
80	81	83	82	84	83	85	84	84	83	81.5	·878	24
79	78	80	82	85	85	83	84	84	84	82·2	·891	25
83	84	82	82	82	83	84	84	86	83	83·2	·887	26
78	77	79	80	81	81	82	82	82	83	81·3	·887	27
75	76	78	79	82	81	83	84	85	84	81·2	·889	28
64	70	76	77	79	78	81	83	83	83	79·0	·876	29
79	77	79	79	86	87	83	83	83	80	81·4	·888	30
75	76	76	78	83	82	90	87	87	86	82·1	·861	31
80·8	80·8	82·1	82·9	83·9	84·2	85·3	85·5	85·8	85·7	84·0	·905	Mean.
"	"	"	"	"	"	"	"	"	"	"		*Mean Vapour Pressure in inches of mercury.
·913	·913	·910	·901	·900	·901	·906	·906	·909	·905	·904		

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79	81	87	89	89	89	88	86	87	87	85·5	·885	1
77	81	81	81	81	81	81	81	82	83	83·3	·894	2
77	76	79	82	80	80	82	83	84	84	82·6	·886	3
80	78	80	79	80	81	82	83	82	83	81·7	·883	4
78	79	82	81	81	82	82	83	82	85	82·3	·883	5
75	72	75	77	78	80	80	80	81	81	80·0	·870	6
81	74	75	77	78	81	86	83	79	82	80·4	·874	7
78	82	78	78	80	78	81	79	79	80	80·6	·849	8
75	75	75	77	79	81	80	83	84	84	79·2	·867	9
80	79	79	82	83	85	85	83	83	83	82·4	·881	10
76	75	75	77	79	81	81	83	82	82	80·3	·873	11
75	78	79	82	83	84	84	83	83	78	80·1	·851	12
72	69	70	72	77	78	80	83	83	83	77·9	·836	13
76	76	75	71	76	77	77	77	78	78	77·3	·846	14
82	75	74	76	77	79	80	81	83	83	81·0	·841	15
74	74	75	76	81	81	80	82	82	81	80·4	·857	16
77	72	71	74	71	77	80	80	81	79	78·5	·821	17
73	75	79	79	80	84	82	82	80	80	81·3	·825	18
76	79	81	78	80	79	84	86	83	83	80·5	·836	19
74	75	75	77	79	80	80	81	86	81	80·0	·853	20
85	88	90	92	90	92	93	91	86	84	84·5	·825	21
79	78	80	86	83	82	82	83	83	82	83·4	·841	22
76	77	80	79	81	81	80	80	82	81	79·5	·837	23
81	80	80	82	84	82	83	82	84	83	82·8	·832	24
79	79	78	80	80	80	81	82	82	83	82·4	·837	25
79	79	80	81	83	81	83	82	82	83	82·0	.855	26
79	79	85	83	84	81	82	82	82	83	81·5	·852	27
74	75	75	75	78	80	81	82	83	84	81·2	·852	28
73	74	73	75	77	79	77	78	80	83	79·2	·839	29
72	76	74	74	78	80	79	80	80	80	78·2	·824	30
85	81	78	80	82	84	85	83	82	82	81·9	·797	31
77·3	77·1	78·0	79·1	80·4	81·3	82·0	82·2	82·3	82·2	81·0	·852	Mean.
"	"	"	"	"	"	"	"	"	"	"		*Mean Vapour Pressure in inches of mercury.
·871	·857	·853	·849	·843	·845	·849	·845	·847	·843	·855		

*Computed from mean temperatures and mean relative humidities.

SEPTEMBER. (THE FIGURES REPRESENT PERCENTAGES.)

Date.	Hours.													
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13	13—14
1	82	82	84	84	82	82	84	80	80	79	78	78	81	76
2	82	82	82	82	82	81	82	82	79	78	79	72	72	71
3	86	84	84	83	84	89	89	87	89	87	83	78	75	73
4	83	84	84	84	85	86	85	81	76	74	73	71	69	69
5	79	78	83	82	84	85	86	87	86	87	80	76	75	74
6	86	86	87	91	92	91	92	93	92	92	91	92	90	87
7	91	90	89	91	90	89	90	90	91	90	86	84	79	80
8	83	81	81	79	79	81	79	78	75	74	72	72	71	76
9	79	78	78	78	77	77	78	76	73	72	70	68	71	71
10	84	84	86	86	87	87	89	88	88	88	84	81	82	81
11	85	86	87	88	87	88	88	86	84	83	78	74	72	72
12	80	82	82	82	84	87	86	84	83	79	75	71	68	68
13	79	79	92	85	85	86	84	84	79	77	75	72	69	68
14	80	81	81	81	82	83	83	80	79	73	70	70	69	70
15	81	83	84	85	85	86	84	80	76	75	77	77	76	75
16	88	89	88	87	90	91	91	87	83	80	80	79	78	77
17	90	91	91	91	91	90	91	91	90	89	87	85	82	78
18	93	92	93	90	87	90	93	93	91	90	87	85	83	83
19	86	88	88	88	91	91	91	85	84	83	81	79	78	75
20	91	91	91	91	91	91	91	89	85	83	80	77	77	79
21	92	91	93	93	92	91	90	85	87	82	80	81	79	79
22	90	90	91	93	92	91	92	91	89	85	81	79	79	78
23	91	89	89	91	91	90	91	90	87	84	82	81	81	80
24	92	93	91	91	91	90	92	90	87	86	85	84	83	83
25	92	92	93	92	93	93	93	91	87	83	77	66	71	69
26	90	90	91	91	90	90	89	87	87	82	82	80	81	82
27	91	91	90	91	92	93	91	89	89	88	84	83	78	75
28	91	89	86	88	91	91	90	89	87	86	83	80	77	72
29	91	91	91	91	86	86	84	87	83	81	81	81	81	80
30	85	86	86	89	89	86	86	87	86	83	81	79	78	77
Mean . .	86·4	86·4	86·9	87·3	87·4	87·7	87·8	86·2	84·4	82·4	80·1	77·8	76·8	75·9
*Mean Vapour Pressure in inches of mercury.	·852	·849	·851	·852	·848	·848	·851	·858	·874	·881	·885	·882	·888	·892

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1	92	93	92	91	93	92	92	91	91	89	87	86	89	89
2	88	88	88	88	89	90	90	90	90	87	86	82	81	80
3	91	91	90	91	91	92	90	89	87	87	84	81	80	77
4	91	92	94	93	93	92	91	89	88	89	86	81	81	78
5	89	89	89	88	89	88	86	87	86	85	84	80	78	77
6	87	87	87	88	89	89	88	88	86	83	80	80	79	79
7	85	85	87	89	88	89	88	88	85	83	79	77	76	76
8	80	80	80	82	84	86	89	82	81	78	73	69	66	67
9	84	82	84	84	86	86	86	84	85	81	75	71	70	71
10	78	78	78	80	89	87	83	91	91	90	87	82	76	80
11	81	81	81	81	85	85	83	84	84	82	78	75	69	69
12	79	79	81	83	85	84	84	84	84	83	77	75	74	71
13	85	86	84	85	84	84	83	83	80	78	73	69	68	69
14	83	83	85	87	87	87	87	84	81	79	77	75	74	74
15	87	85	84	85	87	84	87	87	87	83	79	77	77	76
16	85	85	87	88	89	89	88	85	82	79	77	75	73	75
17	88	89	87	87	88	89	89	88	87	82	79	76	77	76
18	90	90	89	91	91	91	91	91	91	88	85	82	76	72
19	88	85	86	87	91	91	91	90	87	84	81	79	71	62
20	88	87	89	89	90	87	84	80	87	77	72	68	61	64
21	78	73	80	80	77	75	68	75	65	60	58	58	57	61
22	83	80	83	81	74	69	75	78	70	65	62	60	61	62
23	84	84	85	85	76	77	86	84	78	72	66	61	61	60
24	81	81	84	85	86	84	86	84	80	71	64	59	52	47
25	72	72	76	76	77	77	77	74	72	65	63	50	51	56
26	67	68	69	67	73	76	77	71	59	56	51	44	47	45
27	77	77	73	66	72	71	78	75	73	67	63	58	54	54
28	76	79	77	79	78	77	79	80	76	69	66	51	46	44
29	76	75	78	71	73	75	79	78	72	69	64	57	54	52
30	76	76	77	78	80	78	76	78	72	72	65	56	48	46
31	68	72	76	78	78	79	78	77	72	65	58	49	50	54
Mean . .	82·5	82·3	83·2	83·3	84·3	83·9	84·2	83·5	80·9	77·4	73·5	69·1	67·0	66·5
*Mean Vapour Pressure in inches of mercury.	·827	·819	·823	·816	·815	·803	·808	·829	·840	·841	·836	·817	·818	·822

*Computed from mean temperatures and mean relative humidities.

SEPTEMBER. (THE FIGURES REPRESENT PERCENTAGES.)

Hours.										Mean.	Mean Vapour Pressure.*	Date.
14—15	15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24			
79	78	78	79	84	81	78	81	81	81	80·5	·813	1
73	73	71	76	77	79	78	78	83	84	78·3	·824	2
71	69	72	73	75	78	78	79	80	81	80·3	·829	3
68	69	68	71	73	74	78	79	80	78	76·7	·794	4
82	82	81	79	81	78	81	82	79	84	81·3	·815	5
84	79	79	78	80	82	86	83	91	93	87·4	·848	6
75	74	73	74	76	76	77	78	79	80	83·0	·802	7
68	68	69	76	76	77	80	81	80	78	76·4	·791	8
70	71	75	79	81	85	83	82	83	84	76·6	·775	9
81	72	70	72	76	74	76	78	78	80	81·3	·801	10
69	67	67	70	73	74	75	76	79	80	78·7	·812	11
67	68	67	72	72	75	78	78	76	78	76·7	·802	12
66	65	68	69	73	74	74	76	76	78	76·0	·797	13
71	72	74	77	78	79	80	78	79	79	77·0	·821	14
76	76	78	79	82	84	85	87	86	87	81·0	·898	15
78	77	81	82	84	86	89	89	88	89	84·6	·923	16
76	76	74	80	83	88	91	91	90	89	86·5	·899	17
83	81	83	83	86	88	88	87	86	84	87·5	·840	18
80	81	78	81	85	88	88	88	90	89	84·8	·861	19
79	79	84	85	90	91	91	87	89	91	86·4	·889	20
79	78	79	81	83	85	85	85	88	89	85·3	·909	21
78	78	80	81	85	86	86	87	89	89	85·8	·939	22
80	82	83	85	87	87	87	88	90	91	86·5	·981	23
80	80	82	84	86	89	90	91	91	91	87·6	1·013	24
70	71	75	76	82	80	81	83	85	88	82·6	1·012	25
81	80	81	84	85	87	87	88	87	88	85·8	·936	26
76	75	80	84	86	87	91	89	89	88	86·3	·868	27
71	74	81	83	85	85	91	91	90	91	85·1	·890	28
79	80	81	80	84	84	84	85	85	86	84·3	·879	29
75	77	78	81	82	82	89	91	92	93	84·1	·882	30
75·5	75·1	76·3	78·5	81·0	82·1	83·5	83·9	84·6	85·4	82·5	·865	Mean.
"	"	"	"	"	"	"	"	"	"	"		*Mean Vapour Pressure in inches of mercury.
·884	·874	·857	·853	·855	·856	·859	·852	·848	·847	·862		

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85	88	87	87	89	87	87	89	91	93	89·6	·895	1
81	80	79	82	86	89	87	89	90	91	86·3	·871	2
76	75	75	79	81	84	86	91	91	91	85·4	·902	3
77	80	82	82	84	85	86	87	87	88	86·5	·899	4
77	78	79	81	85	86	87	86	86	86	84·4	·912	5
78	78	79	82	85	85	85	84	85	85	84·0	·925	6
76	75	74	79	83	84	84	82	82	80	82·3	·883	7
67	68	71	73	76	77	76	78	80	82	76·9	·825	8
71	72	73	77	75	77	76	74	77	78	78·3	·835	9
79	78	82	83	80	82	85	86	87	84	83·2	·826	10
69	70	68	70	73	74	76	78	80	80	77·3	·795	11
71	71	71	73	74	74	74	76	80	84	78·0	·818	12
71	72	74	74	75	79	80	81	82	82	78·4	·841	13
74	76	79	79	82	83	83	83	84	86	81·3	·913	14
75	76	77	79	81	83	84	84	85	85	82·3	·918	15
70	72	75	77	81	81	81	84	86	87	81·3	·907	16
74	76	76	81	85	87	88	88	89	88	83·9	·924	17
73	74	76	79	82	84	85	87	86	87	84·6	·923	18
69	65	69	75	79	83	81	82	82	84	80·5	·881	19
65	65	69	74	75	77	77	80	82	80	77·8	·849	20
62	65	70	71	75	76	76	73	76	80	70·4	·756	21
63	65	70	75	79	81	83	85	82	82	73·7	·794	22
64	67	72	74	76	78	81	78	75	82	75·3	·805	23
62	58	60	64	64	70	70	68	72	74	71·1	·761	24
58	59	65	73	73	76	82	83	78	72	69·9	·758	25
55	57	62	66	67	73	75	76	77	74	64·7	·713	26
52	55	57	62	67	71	74	76	74	73	67·5	·729	27
48	52	61	66	70	74	76	74	72	73	68·5	·745	28
58	62	69	73	74	72	74	72	65	65	69·0	·760	29
50	56	63	69	74	73	73	74	73	70	68·9	·766	30
53	56	60	67	69	67	69	73	76	77	67·5	·756	31
67·5	69·1	71·7	75·0	77·4	79·1	80·0	80·7	81·0	81·4	77·7	·835	Mean.
"	"	"	"	"	"	"	"	"	"	"		*Mean Vapour Pressure in inches of mercury.
·837	·846	·848	·853	·858	·863	·859	·847	·830	·826	·837		

* Computed from mean temperatures and mean relative humidities.

NOVEMBER. (THE FIGURES REPRESENT PERCENTAGES.)

Date.	Hours.													
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13	13—14
1	76	78	81	80	79	82	80	75	68	58	48	45	43	41
2	72	74	77	81	81	77	79	78	71	67	59	53	48	46
3	80	80	80	80	80	84	82	78	71	65	59	51	42	45
4	78	81	79	81	83	83	83	83	72	65	55	46	43	45
5	73	72	78	80	73	66	64	70	65	56	52	45	38	33
6	56	60	65	62	59	59	61	66	63	54	54	53	52	54
7	91	90	86	86	86	86	88	87	84	82	75	68	68	68
8	88	89	89	89	89	89	88	87	84	77	70	67	71	70
9	85	84	85	85	85	87	88	86	84	82	76	69	69	69
10	89	89	88	88	88	89	89	88	87	83	81	78	67	62
11	84	85	83	84	86	88	84	84	79	78	55	58	62	53
12	83	84	86	85	85	86	83	79	78	76	73	69	60	62
13	85	89	87	85	83	85	86	82	78	76	72	66	56	58
14	74	77	75	76	75	77	78	76	70	65	54	50	49	45
15	75	77	71	70	70	73	71	71	68	58	62	57	47	55
16	74	76	79	81	82	82	82	81	80	75	71	68	69	72
17	83	79	81	84	86	85	85	84	81	76	68	65	70	70
18	89	90	91	91	91	91	91	90	89	87	80	70	66	63
19	76	73	72	72	66	61	66	72	72	65	59	53	43	45
20	70	66	60	67	75	75	69	71	70	68	59	50	52	51
21	73	68	73	75	68	75	79	74	72	69	57	49	45	50
22	71	73	75	75	77	78	78	78	76	70	57	57	48	42
23	70	74	75	65	70	68	64	56	48	45	46	41	37	34
24	64	68	70	70	70	65	56	49	45	44	44	40	32	28
25	68	68	67	68	68	61	49	42	41	41	42	42	37	34
26	73	69	71	72	69	65	44	69	64	54	50	47	41	34
27	70	65	70	70	68	63	63	62	54	50	50	49	40	29
28	70	68	71	69	75	68	66	65	58	51	48	39	28	28
29	69	70	68	69	71	71	73	71	64	61	56	50	42	38
30	74	76	75	76	73	72	73	72	70	63	57	48	43	42
Mean . .	76·1	76·4	76·9	77·2	77·0	76·4	74·7	74·2	70·2	65·4	59·6	54·8	50·3	48·9
*Mean Vapour Pressure in inches of mercury.	·743	·738	·696	·729	·712	·703	·687	·699	·697	·688	·669	·650	·630	·632

DECEMBER.

1	71	77	78	80	76	76	73	73	70	64	63	54	39	48
2	78	79	79	74	69	73	70	70	64	54	42	47	49	51
3	68	68	61	66	69	70	69	64	62	64	59	52	53	51
4	76	73	77	75	82	86	85	81	74	73	68	58	55	60
5	82	82	81	78	79	80	81	80	74	68	54	49	50	46
6	79	81	79	77	76	71	60	59	59	52	49	48	46	41
7	56	50	57	61	57	63	69	70	69	62	58	50	46	56
8	71	71	72	68	73	77	78	75	69	66	60	55	45	40
9	80	78	76	77	79	78	77	77	66	57	56	51	43	49
10	76	70	74	76	79	77	80	76	68	62	61	56	49	50
11	73	74	75	76	75	78	78	72	70	65	60	51	49	49
12	71	68	72	76	75	76	76	74	71	67	62	57	50	52
13	83	87	88	84	76	79	83	80	75	73	66	57	56	56
14	67	62	59	61	65	64	67	68	63	64	59	59	53	54
15	69	62	60	60	67	71	73	70	63	56	56	52	50	54
16	53	53	53	57	54	57	65	66	56	53	54	50	49	49
17	64	62	62	65	65	66	63	62	59	51	49	54	52	50
18	62	62	63	59	52	51	52	54	51	49	52	54	49	48
19	65	69	74	76	76	78	77	77	75	70	65	67	60	62
20	87	78	76	76	76	76	80	75	76	73	68	66	60	53
21	64	60	63	60	53	48	49	56	55	56	54	52	54	52
22	60	66	63	57	63	66	66	70	63	60	59	60	51	46
23	70	68	71	75	76	79	77	75	73	71	68	66	68	69
24	66	67	69	71	72	69	68	67	57	55	54	50	47	47
25	53	52	52	47	47	45	47	48	48	48	45	41	43	46
26	60	58	55	55	56	56	58	60	57	52	50	47	39	42
27	63	63	68	73	71	61	57	63	60	59	54	48	53	60
28	80	74	74	76	77	76	77	73	65	62	59	55	52	52
29	62	62	63	67	71	72	68	65	61	59	53	42	51	54
30	77	74	74	79	73	77	82	76	72	69	66	57	51	54
31	71	77	77	76	77	79	80	78	64	63	68	53	45	47
Mean . .	69·6	68·6	69·2	69·6	69·5	70·2	70·5	69·5	64·8	61·2	57·8	53·5	50·2	51·2
*Mean Vapour Pressure in inches of mercury.	·551	·534	·537	·531	·523	·523	·521	·525	·520	·528	·541	·533	·528	·549

*Computed from mean temperatures and mean relative humidities.

NOVEMBER. (THE FIGURES REPRESENT PERCENTAGES.)

Hours.										Mean.	Mean Vapour Pressure.*	Date.
14—15	15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24			
											"	
45	53	60	66	69	72	75	73	67	70	66.0	·736	1
50	59	65	70	70	75	77	78	75	77	69·1	·771	2
45	48	54	61	66	68	72	75	76	75	67·4	·747	3
56	58	60	63	69	72	77	73	64	72	68·4	·732	4
34	53	59	66	67	72	74	70	58	57	61·5	·658	5
59	62	67	71	73	77	81	83	87	89	65·3	·678	6
69	70	74	77	80	83	85	86	85	87	80·9	·879	7
70	71	74	77	80	83	86	87	87	86	**81·2**	**·936**	8
69	69	76	78	80	82	81	84	86	87	80·3	·919	9
66	68	68	68	71	74	79	82	84	84	79·6	.900	10
60	64	66	69	74	78	76	79	81	83	74·9	·801	11
64	63	70	76	81	83	83	83	86	85	77·6	·814	12
55	61	63	64	66	71	75	78	77	72	73·5	·791	13
47	51	58	64	70	71	75	75	71	68	66·3	·754	14
63	57	59	68	71	74	76	77	74	74	67·4	·762	15
63	72	71	74	77	82	83	83	85	84	77·1	·855	16
72	73	76	79	81	83	85	87	87	89	79·5	·870	17
63	62	64	70	68	69	74	74	74	72	77·9	·850	18
52	54	62	68	64	65	65	64	67	67	63·5	·702	19
52	55	59	62	67	67	66	64	70	77	64.3	·683	20
51	53	57	64	69	73	76	74	72	72	66.2	·685	21
50	49	50	52	56	59	71	70	67	67	64·4	·676	22
29	37	53	60	63	66	67	66	64	63	56·7	·607	23
30	43	50	57	62	65	69	70	65	63	**55·0**	·575	24
50	51	58	62	66	68	73	74	71	67	57·0	·586	25
32	43	50	53	51	64	58	66	64	65	56·6	·560	26
29	35	41	48	53	56	64	68	65	65	55.3	**·526**	27
33	42	47	53	57	60	67	69	60	65	56·5	·529	28
46	47	53	57	32	67	72	70	67	74	62·0	·578	29
46	50	56	69	72	74	71	69	68	70	65·0	·600	30
51·8	55·8	60·7	65·5	68·5	71·4	74·4	75·0	73·5	74·2	67·9	·725	Mean.
"	"	"	"	"	"	"	"	"	"	"		
·668	·701	·729	·752	·762	·781	**·791**	·728	·739	·732	·722		*Mean Vapour Pressure in inches of mercury.

DECEMBER.

52	55	62	67	72	74	75	73	72	77	67·5	·638	1
56	57	57	64	68	60	61	62	61	66	63·0	·613	2
57	63	68	74	77	79	74	71	72	79	66·3	·723	3
62	62	67	72	78	76	74	75	80	81	72·9	**·787**	4
48	57	68	75	75	77	76	75	79	81	70·6	·773	5
50	60	60	53	56	52	42	54	58	58	59·2	·613	6
58	61	63	64	67	68	69	63	72	76	61·9	·626	7
44	57	57	63	69	74	79	80	77	73	66·4	·681	8
55	59	61	67	71	76	78	77	79	81	68·7	·700	9
54	53	57	67	69	71	76	75	71	76	67·6	·673	10
43	47	51	56	63	66	72	76	71	73	65·1	·642	11
54	55	61	69	74	78	81	84	86	83	69·7	·674	12
57	59	62	68	72	73	73	70	65	69	71·3	·665	13
52	54	60	65	65	63	59	60	62	65	61·3	.555	14
55	56	57	58	60	55	53	57	56	56	59·4	·530	15
48	53	59	60	58	59	60	57	59	59	55·9	·479	16
53	55	59	62	63	66	65	68	69	65	60·4	·515	17
50	50	53	55	59	62	67	67	65	65	56·3	·475	18
64	68	69	73	75	75	82	**89**	88	89	**73·5**	·658	19
49	54	60	61	62	63	66	65	67	66	68·0	·513	20
52	52	56	61	65	62	58	58	59	60	56·6	·367	21
48	48	48	53	59	66	70	72	72	70	60·7	·480	22
68	66	63	66	66	63	62	63	65	66	68·9	·540	23
49	50	51	55	59	59	60	59	53	50	58·9	·415	24
49	51	51	53	55	57	59	59	58	58	**50·5**	**·324**	25
54	58	65	66	67	66	65	64	59	62	57·1	·405	26
62	66	67	68	71	73	74	74	78	80	65·3	·513	27
53	63	66	67	69	71	74	73	65	63	67·3	·549	28
56	55	59	66	72	72	71	67	70	75	63·0	·497	29
58	58	60	65	73	73	76	78	71	68	69·2	·528	30
49	53	59	66	71	75	76	74	75	67	67·5	·511	31
53·5	56·6	59·9	63·8	67·1	67·9	68·6	69·0	68·8	69·6	64·2	·570	Mean.
"	"	"	"	"	"	"	"	"	"	"		
·574	·598	·606	·613	**·623**	·616	·604	·586	·569	·560	·562		*Mean Vapour Pressure in inches of mercury.

* Computed from mean temperatures and mean relative humidities.

Notation :—H=High clouds (Ci, Ci-S) ; M=Medium clouds (Ci-Cu

JANUARY.

Day.	Cloud Forms (coming from)									Cloud Amount (All Forms).						
	8½h.			12½h.			16½h.									
	H.	M.	L.	H.	M.	L.	H.	M.	L.	6h.	8h.	10h.	12½h.	14h.	16h.	22h.
1	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0
2	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0
3	SW	..	..	..	SW	..	SW	..	..	5	0	2	6	6	4	0
4	W	..	..	WSW	..	..	SW	..	..	0	1	3	2	2	1	0
5	SW	..	..	SW	..	..	..	..	..	6	7	5	1	1	0	0
6	..	..	..	..	..	..	..	..	..	1	1	0	0	0	0	0
7	..	..	..	..	..	..	..	..	..	1	0	1	0	1	0	0
8	NW	..	..	W	..	..	SW	..	..	4	7	5	6	6	2	3
9	SE	..	..	SW	..	..	..	..	SW	1	1	5	1	1	1	0
10	SSW	..	..	..	E	..	WNW	..	..	1	2	2	1	1	1	0
11	..	..	..	..	..	..	..	..	..	2	1	0	0	1	0	0
12	..	..	..	..	..	..	..	..	..	0	0	0	0	1	0	0
13	..	..	..	..	..	..	WNW	..	..	0	9	0	0	5	2	0
14	..	..	..	..	..	..	..	..	..	2	1	0	0	0	0	0
15	..	..	..	..	..	..	W	..	..	0	0	0	0	0	1	0
16	..	..	..	..	..	..	..	..	..	2	1	1	0	0	0	0
17	WNW	..	..	W	..	..	SW	..	..	4	2	1	1	0	0	2
18	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0
19	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0
20	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0
21	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0
22	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0
23	..	..	..	..	..	..	..	..	..	0	0	0	0	0	1	3
24	NW	..	..	NW	..	..	S	..	..	2	6	7	4	6	7	4
25	W	..	..	NW	..	..	WNW	..	..	2	7	7	6	7	6	6
26	..	..	..	WNW	..	..	W	..	..	1	1	2	1	2	2	6
27	..	..	SW	..	W	..	W	..	..	4	8	10	3	2	2	1
28	..	..	..	..	..	WNW	W	WSW	..	4	1	1	4	6	2	3
29	W	..	..	WSW	..	..	W	..	..	2	7	4	5	5	3	0
30	..	SW	..	..	SW	..	..	..	W	5	6	6	2	2	2	0
31	..	..	..	..	..	..	..	..	..	2	0	0	0	0	0	0
Mean cloud amount.										1·6	2·2	2·0	1·4	1·8	1·2	0·9

MARCH.

1	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0
2	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0
3	..	S	..	..	..	..	..	S	..	1	1	0	0	0	1	0
4	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0
5	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	3
6	E	..	..	..	..	..	SE	..	..	1	2	1	0	1	1	0
7	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0
8	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0
9	..	..	..	..	..	..	..	..	..	1	1	1	0	0	1	0
10	..	..	SE	SE	..	..	..	..	..	0	1	1	1	1	0	0
11	..	..	..	..	..	..	..	..	..	1	1	0	0	0	0	0
12	..	..	..	..	..	..	..	..	..	2	2	0	0	0	0	0
13	..	..	..	..	..	..	..	..	..	1	1	0	0	0	0	0
14	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0
15	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0
16	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0
17	..	..	SE	..	..	..	..	..	..	0	1	1	0	0	1	2
18	..	..	E	..	..	..	..	..	SE	3	3	1	0	0	2	4
19	..	..	..	..	..	..	..	..	SE	4	1	0	0	1	2	7
20	..	..	..	..	..	..	..	..	..	5	1	0	0	0	0	1
21	..	..	..	..	..	..	..	..	SE	2	1	0	0	1	1	2
22	..	S	..	..	..	..	..	..	..	1	3	0	0	0	0	0
23	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0
24	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0
25	..	..	..	..	..	..	..	..	..	1	0	0	0	0	0	0
26	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0
27	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0
28	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	2
29	..	..	..	..	..	..	..	..	..	1	0	0	0	0	0	0
30	..	S	SE	..	..	[SW	..	..	..	5	5	1	1	0	1	0
31	..	..	..	..	..	..	..	..	..	2	0	0	0	0	0	0
Mean cloud amount.										1·0	0·8	0·2	0·1	0·1	0·3	0·7

A-Cu, A-S) ; L=Low clouds (Cu, Cu-N, S, N). .. No cloud.

FEBRUARY.

Cloud Forms (coming from)									Cloud Amount (All Forms).							Day.
8½h.			12½h.			16½h.										
H.	M.	L.	H.	M.	L.	H.	M.	L.	6h.	8h.	10h.	12½h.	14h.	16h.	22h.	
..	..	..	..	..	..	..	..	..	1	0	1	0	1	1	0	1
NW	..	..	W	..	..	..	..	..	1	1	3	1	1	0	1	2
..	SSW	..	..	..	SSW	S	..	..	2	2	6	4	4	1	0	3
W	..	..	SW	..	..	..	..	..	2	3	3	1	1	0	0	4
..	..	..	..	..	SW	..	..	..	0	1	1	1	1	0	1	5
..	..	..	..	..	SW	..	..	SW	1	0	0	1	1	1	2	6
..	..	..	..	..	SW	..	..	SW	0	0	1	1	1	1	0	7
..	..	..	..	..	SW	..	..	..	0	0	1	1	1	0	0	8
..	..	..	..	..	..	..	..	..	0	0	0	0	1	0	0	9
..	..	..	..	..	SSW	..	..	..	0	0	0	1	0	0	0	10
..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0	11
..	..	..	..	..	..	..	..	SW	0	0	0	0	1	1	1	12
..	S	..	..	S	..	..	..	SSW	2	0	1	1	2	1	0	13
..	..	..	..	SSW	..	..	..	SW	1	0	0	1	0	1	1	14
..	..	SW	..	..	S	SW	..	..	4	2	2	1	1	2	5	15
S	..	..	W	..	..	..	..	SW	4	3	2	3	1	2	0	16
WSW	..	..	..	..	..	..	..	..	1	3	1	0	0	0	0	17
W	..	..	NW	..	..	..	..	..	1	1	2	1	1	1	0	18
..	..	..	SW	..	..	..	..	..	0	0	1	1	0	0	0	19
..	..	..	..	..	..	N	..	..	0	0	1	0	0	0	0	20
..	..	..	..	..	..	..	..	..	1	0	0	0	1	0	0	21
..	..	..	..	..	..	SW	..	..	2	0	0	0	1	1	0	22
..	..	..	NW	..	..	NW	..	..	1	0	2	5	7	7	1	23
..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0	24
..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0	25
..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0	26
..	..	SE	..	..	..	..	..	..	6	0	0	0	0	0	0	27
..	..	..	..	..	..	SW	..	..	1	0	1	0	1	1	0	28
									1·1	0·5	1·0	0·9	1·0	0·7	0·4	Mean cloud amount.

APRIL.

..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0	1
..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0	2
..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0	3
..	..	SW	..	..	..	..	..	..	1	1	2	0	0	0	0	4
..	..	SW	..	..	..	..	..	..	2	1	1	0	0	0	0	5
..	SE	S	..	..	..	..	..	..	4	3	1	0	0	1	2	6
..	..	SSE	..	SW	..	..	..	SW	3	5	2	1	2	1	1	7
..	SW	..	..	..	S	..	..	SW	2	3	2	1	2	4	2	8
..	..	SW	..	..	SW	..	..	SSW	3	6	3	4	5	6	4	9
..	..	S	..	..	NW	..	SW	..	10	10	9	4	5	4	2	10
..	W	..	..	..	SW	..	..	SW	6	3	3	1	1	1	1	11
..	..	S	..	..	S	..	..	SW	2	1	2	1	1	1	0	12
..	..	..	..	..	..	..	..	..	2	0	0	0	1	1	0	13
..	..	W	..	..	W	..	..	..	0	2	0	1	1	1	0	14
..	..	WSW	..	WNW	..	..	WSW	..	1	1	1	1	5	4	5	15
..	..	WSW	..	..	S	..	..	SW	6	3	1	1	1	1	2	16
..	..	W	..	..	..	..	..	..	1	1	1	0	1	1	0	17
..	..	SE	..	..	..	..	..	..	4	5	2	0	0	0	1	18
..	..	SE	..	..	..	..	..	..	4	8	3	0	1	0	0	19
..	..	SSE	..	..	SW	..	..	S	2	1	3	3	4	1	4	20
..	..	SE	..	..	SW	..	..	SW	1	7	2	1	1	1	1	21
..	..	S	..	SSW	..	..	..	SW	4	6	1	1	3	3	10	22
..	..	SSW	..	..	SW	..	..	SW	6	7	3	1	2	1	8	23
..	..	..	..	..	SW	..	..	SW	1	1	1	1	1	1	2	24
..	..	N	..	..	..	..	..	SW	2	2	1	0	1	1	5	25
..	..	NW	..	..	..	..	..	W	3	7	3	0	1	1	4	26
..	..	WSW	..	..	W	..	..	..	3	6	4	1	1	1	5	27
..	SE	NW	..	..	SE	..	..	SW	4	6	3	1	1	1	5	28
..	..	SW	..	S	..	SSW	..	..	9	9	9	1	1	1	7	29
..	SSW	..	SW	..	..	..	SE	..	9	7	5	1	3	5	2	30
									3·2	3·7	2·3	0·9	1·5	1·4	2·4	Mean cloud amount.

Notation :—H=High clouds (Ci, Ci-S.); M=Medium clouds (Ci-Cu,

MAY.

Day.	Cloud Forms (coming from)									Cloud Amount (All Forms).						
	8½h.			12½h.			16½h.			6h.	8h.	10h.	12½h.	14h.	16h.	22h.
	H.	M.	L.	H.	M.	L.	H.	M.	L.							
1	..	..	SSW	..	..	..	..	..	..	6	3	2	0	0	0	0
2	..	..	S	..	..	SW	..	..	SW	5	7	6	1	6	7	1
3	..	..	ESE	SE	..	..	SE	..	..	5	7	4	1	4	2	1
4	..	..	S	..	..	SW	..	..	SW	3	2	2	1	1	4	3
5	..	..	S	..	SSE	SSW	..	..	SW	6	4	5	5	5	3	3
6	..	..	SSW	..	..	SW	..	..	SW	2	2	2	1	1	1	1
7	..	..	SW	..	..	..	..	..	..	1	2	1	0	0	0	1
8	..	S	..	..	..	SSW	..	..	SW	4	2	4	1	2	1	1
9	..	..	SW	S	..	..	..	..	..	3	4	3	1	4	1	0
10	..	..	N	..	..	..	..	..	..	4	5	1	0	0	0	0
11	..	..	NW	..	..	..	..	..	..	2	5	3	0	1	1	1
12	..	..	NW	..	..	W	..	..	NW	2	4	2	1	1	3	2
13	..	..	WNW	..	..	WSW	..	..	W	2	2	3	3	3	3	2
14	..	..	SW	..	..	SW	..	..	W	2	3	2	1	1	3	2
15	..	..	NW	..	..	WNW	..	..	WNW	2	1	1	2	3	1	3
16	..	..	NW	..	..	NW	..	..	NW	4	2	2	1	1	1	3
17	..	..	NW	..	..	..	..	..	..	2	1	1	0	0	0	2
18	..	..	NNW	..	..	..	..	..	NW	6	6	5	0	2	2	4
19	..	..	NNW	..	..	WNW	..	..	..	3	7	7	3	4	0	0
20	..	..	..	..	..	..	..	..	..	0	1	0	0	0	0	4
21	..	..	WNW	..	..	WNW	..	..	W	3	5	4	4	3	2	5
22	..	..	SW	..	..	W	..	..	SW	3	2	4	4	3	2	4
23	..	..	S	..	..	SW	..	..	WNW	2	4	1	5	5	5	2
24	..	..	WNW	..	..	NW	..	..	NW	2	1	2	2	3	1	2
25	..	..	N	..	..	NW	..	..	WNW	2	2	1	1	1	1	1
26	..	..	WNW	..	..	..	..	..	..	8	3	2	0	1	0	3
27	..	..	NW	..	..	WNW	..	..	WSW	5	4	2	1	1	4	3
28	..	..	SW	..	..	WSW	..	..	WNW	1	2	2	1	1	4	2
29	.	..	NW	..	..	NW	..	..	NW	4	5	5	2	1	4	3
30	N	N	W	NW	..	NW	..	..	NW	5	5	3	4	4	3	3
31	..	..	WNW	..	..	W	..	..	W	6	4	5	7	7	8	3
Mean cloud amount.										3·4	3·5	2·8	1·7	2·2	2·2	2·1

JULY.

1	..	..	SSW	..	..	SW	..	..	SSW	8	10	10	10	10	9	10
2	..	..	SW	..	..	SW	..	..	SW	8	9	5	7	7	8	10
3	..	..	WSW	..	..	SSW	..	.	W	10	10	10	10	10	10	10
4	..	..	SW	..	..	SW	..	..	SW	10	10	10	9	10	9	10
5	..	..	SW	..	..	WSW	..	..	WSW	10	10	10	10	10	10	10
6	..	..	WSW	..	..	WSW	..	..	WSW	10	9	9	10	9	10	9
7	..	..	W	..	..	WSW	..	..	W	10	9	10	10	10	10	9
8	..	..	W	..	..	WSW	NNE	..	WSW	9	9	8	9	9	10	10
9	..	..	W	..	..	SW	..	..	SW	8	10	10	10	10	7	8
10	..	..	SW	..	..	SW	..	..	WSW	10	10	10	10	10	10	10
11	..	..	WSW	..	..	W	..	..	SW	10	10	10	10	10	10	10
12	..	..	W	..	..	WSW	..	..	WSW	10	10	10	10	10	10	10
13	..	..	WSW	..	..	WSW	..	..	WSW	10	10	10	10	10	10	10
14	..	..	SW	..	..	SW	..	..	SW	9	9	8	9	10	9	10
15	..	..	WSW	..	..	SW	..	..	WSW	10	10	10	10	8	8	9
16	..	..	W	..	..	SW	..	..	SW	8	7	7	10	10	9	10
17	..	..	WSW	..	..	W	..	..	SW	10	10	8	10	10	10	10
18	..	.	WSW	..	..	WSW	..	..	WSW	10	10	10	10	10	10	10
19	..	..	SW	..	..	SW	..	..	WSW	10	10	10	10	10	10	10
20	..	..	W	..	..	W	..	..	WSW	10	10	10	10	10	10	10
21	..	..	W	..	..	W	..	..	WSW	10	10	9	9	9	10	10
22	..	..	WSW	..	..	WSW	..	..	WSW	10	10	8	10	10	9	9
23	..	..	W	..	..	W	..	..	W	8	8	10	10	10	10	9
24	..	..	WSW	..	..	SW	..	..	W	10	10	10	10	10	10	10
25	..	..	W	..	..	W	..	..	W	10	9	9	8	10	9	9
26	..	..	WSW	..	..	W	..	..	SW	10	10	10	9	10	10	10
27	..	..	SW	..	..	SW	..	..	WSW	10	8	5	6	10	10	10
28	..	..	W	..	..	SW	..	..	SW	10	9	6	7	9	8	7
29	..	..	W	..	..	W	..	..	W	8	8	7	7	10	9	9
30	..	..	W	..	..	WSW	..	ENE	SW	10	8	6	10	10	8	7
31	..	..	W	..	..	SW	..	..	SW	8	8	7	8	6	10	9
Mean cloud amount.										9·5	9·4	8 8	9·3	9·6	9·4	9·5

A-Cu, A-S); L=Low clouds (Cu, Cu-N, S, N.). .. No cloud.

JUNE.

Cloud Forms (Coming from)									Cloud Amount (All Forms).							Date.
8½h.			12½h.			16½h.			6h.	8h.	10h.	12½h.	14h.	16h.	22h.	
H.	M.	L.	H.	M.	L.	H.	M.	L.								
..	..	W	..	..	W	..	..	SW	4	6	2	1	2	4	3	1
..	..	SW	..	..	W	..	..	WSW	3	4	4	4	6	3	5	2
..	..	SSW	..	..	SW	..	..	SW	10	6	5	3	4	4	3	3
..	..	SSW	..	..	SW	..	..	SW	2	2	3	3	3	4	2	4
..	N	S	..	N	SW	..	..	W	10	9	7	9	9	9	10	5
..	..	SW	..	..	SW	..	..	W	10	10	10	10	10	10	10	6
..	..	W	..	..	SW	..	..	W	10	10	10	10	10	10	10	7
..	..	SW	..	..	WSW	..	..	WSW	10	10	10	10	10	10	10	8
..	..	W	..	..	SW	..	..	SW	10	10	10	10	10	10	6	9
..	..	SW	..	..	WSW	..	..	W	6	5	5	5	6	5	6	10
..	..	SW	..	..	W	..	..	WSW	4	5	2	5	4	6	5	11
..	..	WSW	..	..	SW	..	..	WSW	6	4	5	5	4	6	5	12
..	..	SW	..	..	SW	..	..	WSW	5	5	6	6	9	10	7	13
..	..	SSW	..	SW	SSW	..	NW	WSW	10	10	10	9	8	7	8	14
..	..	SW	..	..	WSW	SW	..	SW	10	8	6	5	4	10	10	15
..	..	SSW	..	..	SW	..	..	SW	10	9	8	8	2	5	8	16
..	..	SW	..	..	NNW	..	NE	SW	8	8	10	10	8	7	8	17
..	..	SSW	..	..	SW	..	..	SW	7	6	8	6	8	9	8	18
..	..	SSW	..	..	SW	..	..	SW	8	6	4	5	4	5	6	19
..	..	SW	..	..	SW	NE	..	WSW	10	8	6	6	5	4	10	20
..	..	SE	..	..	SW	..	..	SW	10	9	9	10	10	10	10	21
..	..	SW	..	..	W	..	..	WSW	10	10	10	10	10	10	9	22
..	..	SSW	..	..	SW	..	..	SW	10	9	10	10	10	10	10	23
..	..	WSW	..	NE	SW	..	..	SW	10	10	10	5	5	8	10	24
..	..	SE	..	..	SW	..	..	SW	10	10	9	10	7	10	10	25
..	..	SW	..	..	SW	..	..	SW	10	10	9	6	6	8	8	26
..	..	S	..	..	S	..	..	S	8	4	7	5	6	9	5	27
SE	..	S	..	..	SSW	..	..	S	10	6	5	10	8	8	7	28
..	..	S	NNE	..	S	..	..	SW	8	10	9	4	4	10	10	29
..	..	SW	..	..	SE	..	..	SSW	8	9	8	8	10	9	10	30
									8·2	7·6	7·2	6·9	6·7	7·7	7·6	Mean cloud amount.

AUGUST.

..	..	SW	..	..	SW	..	..	WSW	10	10	10	7	8	10	2	1
..	..	W	..	..	SW	..	..	W	8	7	7	6	8	8	2	2
..	..	W	..	..	SW	..	..	SW	10	10	10	9	8	10	7	3
..	..	W	..	..	W	..	..	W	8	8	9	9	9	7	9	4
..	..	W	..	..	W	..	..	WSW	8	8	10	9	7	10	10	5
..	..	W	..	..	SW	..	..	WSW	8	9	9	7	7	6	4	6
..	..	W	..	..	W	..	..	W	10	8	7	7	8	8	4	7
..	..	W	..	..	W	..	..	W	10	10	9	10	10	9	5	8
..	..	W	..	..	W	..	..	W	8	5	5	10	7	6	7	9
..	..	W	..	..	W	..	..	W	8	8	8	10	6	5	4	10
..	..	W	..	..	W	..	..	W	9	8	7	6	5	9	5	11
..	..	W	..	..	W	..	..	SW	8	9	4	6	5	10	10	12
..	..	W	..	..	W	..	..	W	8	8	4	6	7	6	7	13
..	..	W	..	..	W	..	..	W	7	5	3	6	8	7	9	14
..	..	WSW	..	..	WSW	..	..	W	5	10	9	10	10	6	10	15
..	..	W	..	..	W	..	..	W	9	6	8	7	7	6	10	16
..	..	WSW	..	..	W	..	..	W	10	9	7	10	10	10	10	17
..	..	WSW	..	..	W	..	..	W	10	10	9	10	10	10	9	18
..	..	WNW	..	..	W	..	..	W	8	10	9	9	10	10	10	19
..	..	NW	..	..	NW	..	..	W	9	10	10	9	8	10	10	20
..	..	W	..	..	WNW	..	..	W	8	10	10	10	10	10	10	21
..	..	W	..	..	WNW	..	..	W	10	10	10	10	9	8	10	22
..	..	W	..	..	WNW	..	..	W	8	8	9	9	7	9	9	23
..	..	W	..	..	WNW	..	..	WNW	10	10	10	10	10	10	7	24
..	..	WNW	..	..	W	..	..	W	10	10	10	10	10	10	8	25
..	..	W	..	..	W	..	..	WSW	10	10	8	10	9	9	9	26
..	..	W	..	..	WSW	..	..	WNW	4	8	6	5	6	10	9	27
..	..	W	..	..	WNW	..	..	W	5	6	6	9	7	7	3	28
..	..	WNW	..	..	WNW	..	..	WNW	6	7	5	4	3	4	4	29
..	..	NW	..	..	WNW	..	NW	NW	6	8	4	4	3	7	4	30
..	..	NW	..	..	NNW	..	..	NW	8	10	10	10	10	10	10	31
									8·3	8·5	7·8	8·2	7·8	8·3	7·3	Mean cloud amount.

Notation :—H=High clouds (Ci, Ci-S.); M=Medium clouds.

SEPTEMBER.

Day.	Cloud Forms (Coming from)									Cloud Amount (All Forms).						
	8½h.			12½h.			16½h.			6h.	8h.	10h.	12½h.	14h.	16h.	22h.
	H.	M.	L.	H.	M.	L.	H.	M.	L.							
1	..	..	WNW	..	..	W	..	..	WNW	8	9	7	5	9	10	6
2	..	..	WNW	..	..	WNW	..	..	W	8	8	9	5	5	8	2
3	..	..	NW	..	..	W	..	..	WNW	9	7	7	7	5	3	2
4	..	..	WNW	..	..	W	..	..	WNW	5	4	6	5	7	6	4
5	..	..	W	..	..	W	..	..	WNW	8	9	8	7	9	10	3
6	..	..	W	..	..	W	..	..	WNW	9	10	8	10	9	8	6
7	..	..	W	..	..	W	..	..	W	10	10	10	10	10	7	3
8	..	..	W	..	..	W	..	..	W	8	5	4	4	4	3	4
9	..	..	W	..	..	W	..	..	W	3	4	2	5	9	8	3
10	..	..	WNW	..	..	SW	..	..	W	8	9	10	9	8	7	4
11	E	..	..	..	..	NW	..	..	NW	5	3	3	2	4	5	2
12	..	..	WNW	..	..	NW	..	..	NW	6	4	4	3	2	1	3
13	..	..	..	..	..	WNW	..	..	NNW	3	1	3	2	1	1	4
14	..	..	NNW	..	SE	N	..	..	NE	4	1	5	4	8	9	10
15	..	NE	..	..	..	..	..	..	..	9	5	2	0	1	1	7
16	..	..	NW	..	..	NW	..	..	N	4	5	6	2	2	9	9
17	..	..	SSW	..	..	NNW	..	..	SSE	10	10	10	8	8	5	10
18	..	..	NE	..	..	NW	..	..	NNW	10	10	10	10	10	10	8
19	..	..	NNE	..	..	SE	..	..	NE	8	5	7	5	5	9	8
20	NNE	..	N	..	..	NE	..	..	SE	6	5	5	3	4	8	7
21	..	..	SE	..	..	NW	..	..	NW	2	1	1	1	2	9	4
22	..	..	N	..	..	NW	..	..	NW	2	3	4	3	3	4	2
23	..	..	NNE	..	..	NW	..	..	NW	8	1	4	1	3	2	6
24	..	..	NE	..	..	NW	..	N	..	2	3	3	2	1	1	1
25	..	..	..	..	..	..	..	NNE	N	2	1	0	0	1	3	4
26	..	..	SSW	..	..	WSW	SSE	..	NW	5	6	5	6	8	7	10
27	..	ENE	E	..	E	S	..	..	NE	8	5	4	2	2	10	9
28	..	..	NE	..	..	NE	..	..	ENE	8	7	8	6	4	9	10
29	..	..	SE	..	..	S	..	..	SW	6	7	4	2	4	5	8
30	..	..	NE	..	..	SSW	..	..	SW	5	6	4	5	4	8	10
Mean cloud amount.										6·3	5·5	5·4	4·5	5·1	6·2	5·6

NOVEMBER.

1	..	..	..	..	..	..	..	..	..	1	1	0	0	0	0	0
2	..	..	..	..	..	..	..	..	W	2	0	2	0	1	1	0
3	..	SW	..	..	WSW	..	..	..	SW	1	1	2	1	1	1	1
4	..	E	..	SE	..	..	SW	..	..	1	1	2	4	5	4	0
5	..	..	ENE	..	..	S	..	..	S	4	7	6	5	7	6	3
6	..	..	E	..	..	E	..	..	E	4	8	8	10	9	9	10
7	..	..	SE	..	..	SE	..	..	NNE	5	4	3	2	2	3	1
8	..	S	..	..	SSE	NE	S	..	SW	4	2	3	3	3	4	6
9	SE	..	..	..	SE	..	SE	..	SSW	2	2	2	4	6	6	4
10	E	..	NE	..	SSE	SE	..	S	..	2	6	6	3	4	3	2
11	..	..	S	..	SSW	..	..	..	SSW	4	6	5	4	3	6	2
12	..	S	..	..	NE	..	SE	E	NE	1	7	7	4	8	8	1
13	..	..	S	..	SSE	SSE	..	SE	..	1	4	8	4	6	4	9
14	..	E	..	..	..	SE	..	..	SE	8	2	6	8	8	9	10
15	..	..	S	..	..	S	..	..	S	10	9	10	8	10	8	10
16	..	..	S	..	..	SW	..	..	NE	9	10	6	6	8	8	1
17	..	..	SSW	..	WSW	..	..	WSW	..	1	2	1	2	4	3	1
18	..	..	NE	..	..	..	..	..	..	2	1	0	0	0	0	0
19	..	..	..	..	..	..	SW	..	..	1	0	0	0	1	0	0
20	..	..	..	..	..	..	..	W	..	0	0	0	0	1	1	0
21	..	..	..	..	..	..	..	..	..	1	0	0	0	0	0	0
22	..	..	..	..	..	..	..	..	..	1	0	0	0	0	0	0
23	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0
24	..	..	..	..	..	..	..	..	..	1	0	0	0	0	0	0
25	SSE	..	..	SSE	..	..	SSW	..	..	3	2	2	1	3	2	0
26	..	SSW	..	S	..	..	W	..	..	2	1	3	1	1	1	0
27	SW	..	..	SW	..	..	SW	..	..	2	1	4	1	1	2	0
28	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0
29	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0
30	..	..	..	..	..	..	..	..	..	0	0	0	0	1	0	0
Mean cloud amount.										2·4	2·6	2·9	2·4	3·1	3·0	2·0

Ci-Cu, A-Cu, A-S) ; L=Low clouds (Cu, Cu-N, S, N). .. No cloud.

OCTOBER.

Cloud Forms (coming from)									Cloud Amount (All Forms).							Date.
8½h.			12½h.			16½h.										
H.	M.	L.	H.	M.	L.	H.	M.	L.	6h.	8h.	10h.	12½h.	14h.	16h.	22h.	
..	..	NE	..	..	NW	..	..	NW	8	6	7	10	8	9	10	1
..	..	NNE	..	..	NW	..	..	ENE	8	7	9	3	3	8	7	2
..	NE	SSW	..	..	WSW	..	..	N	5	5	5	3	3	7	10	3
NE	..	SW	..	..	SW	..	..	W	8	3	6	4	7	10	4	4
..	..	N	S	..	..	..	..	NW	8	4	8	2	2	2	2	5
..	..	SW	..	..	SSW	..	..	SW	6	4	2	2	1	3	2	6
..	..	SE	..	..	SW	..	..	W	2	1	3	2	1	1	1	7
..	N	..	..	..	NW	..	..	NW	2	1	3	2	1	1	1	8
..	..	E	..	..	NW	..	..	NW	1	7	6	7	7	3	3	9
..	..	WNW	..	..	S	..	..	NNW	10	10	10	10	7	6	6	10
..	..	NNW	ESE	S	..	..	..	NW	6	10	9	4	1	1	1	11
..	..	NNE	..	..	NW	..	..	NW	9	3	7	2	2	1	0	12
..	..	NNE	..	..	..	..	..	..	6	10	8	0	0	0	9	13
..	..	N	..	..	NW	..	..	WNW	6	1	6	1	1	2	8	14
..	..	ENE	..	..	NW	..	..	NW	6	4	2	1	1	3	9	15
..	..	NW	..	..	..	..	..	..	7	0	1	0	1	1	0	16
..	..	..	..	..	..	..	..	..	0	4	0	0	0	0	3	17
..	..	ENE	..	..	W	..	..	WNW	4	8	1	1	0	0	2	18
..	..	..	..	..	..	..	..	..	1	1	2	0	0	0	0	19
..	..	..	..	..	..	..	..	..	1	1	1	0	1	1	0	20
..	..	N	..	..	..	..	..	NW	3	3	2	0	1	1	3	21
..	..	..	..	..	..	..	..	..	1	0	0	0	1	0	0	22
..	..	..	..	..	..	..	..	..	1	0	0	0	0	0	0	23
..	..	..	..	..	..	..	..	NW	0	0	2	0	0	1	0	24
..	..	E	..	..	..	..	..	NW	2	1	3	0	2	2	0	25
..	SW	..	..	..	..	..	..	..	1	1	1	0	0	1	0	26
..	..	..	NE	..	..	..	..	SW	1	1	1	1	1	2	0	27
..	NW	..	..	..	..	..	..	..	2	1	0	0	0	0	0	28
..	..	..	..	..	..	..	WSW	..	0	0	0	0	1	1	0	29
..	..	SW	..	..	..	..	WSW	..	1	6	2	0	2	2	1	30
..	..	..	WSW	..	..	WNW	..	..	2	1	3	1	1	1	0	31
									3·8	3·2	3·5	1·8	1·8	2·3	2·6	Mean cloud amount.

DECEMBER.

..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0	1
..	..	..	..	..	..	..	..	W	0	1	1	0	1	1	0	2
..	W	..	..	SW	SE	SSW	..	SE	1	1	1	2	1	1	0	3
..	..	..	..	SSW	..	SW	..	SE	0	0	0	1	1	1	0	4
SW	..	..	SW	..	..	SW	..	W	1	1	3	1	6	5	1	5
W	..	..	W	..	..	WSW	..	..	2	2	1	2	2	4	0	6
SE	..	N	..	..	..	SW	..	..	1	1	1	0	1	1	0	7
..	..	..	..	..	..	..	..	..	1	0	0	0	0	0	0	8
..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0	9
..	..	..	..	..	..	W	..	..	0	0	0	0	0	0	1	10
W	..	..	..	..	..	..	..	..	0	1	0	0	0	0	0	11
..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0	12
..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0	13
..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0	14
SE	..	..	..	..	..	..	..	..	1	1	0	0	0	1	1	15
SW	..	..	..	..	..	..	..	..	0	1	0	0	0	0	0	16
..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0	17
..	..	..	..	..	..	..	..	..	1	1	0	0	0	0	0	18
..	..	..	..	..	SW	..	W	SW	0	0	0	4	4	6	9	19
..	..	SW	..	..	SW	..	..	..	10	10	10	8	5	0	0	20
..	..	..	..	..	..	..	..	..	1	1	1	0	1	0	0	21
..	..	..	..	..	..	..	..	SW	1	0	0	0	1	4	5	22
..	..	W	..	..	SW	..	..	SW	1	1	5	2	2	1	1	23
..	..	WSW	..	..	SW	..	..	..	7	3	1	1	1	0	0	24
..	..	..	..	..	..	..	..	..	0	1	0	0	0	0	0	25
..	..	..	..	..	..	..	..	..	1	1	1	0	0	0	0	26
..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0	27
..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0	28
..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0	29
..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0	30
..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0	31
									0·9	0·9	0·8	0·7	1·1	0·8	0·6	Mean cloud amount.

Month.	Hours. (B. M. T.)												Bright Sunshine.	
	6—7	7—8	8—9	9—10	10—11	11—12	12—13	13—14	14—15	15—16	16—17	17—18	Average per day.	Greatest number of hours in a day.
	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hrs.	hrs.
January	0·20	0·92	0·95	0·95	0·99	1·00	0·99	0·98	0·99	1·00	0·94	0·10	10·0	10·6
February	·32	·98	1·00	1·00	1·00	1·00	1·00	·98	·96	0·99	·98	·12	10·3	10·7
March	·10	·97	1·00	1·00	1·00	1·00	1·00	1·00	1·00	1·00	·99	·23	10·3	10·7
April	·31	·76	0·83	0·90	0·95	0·95	0·98	0·98	0·98	0·99	·94	·51	10·1	11·8
May	·52	·89	·93	·95	·95	·94	·96	·96	·99	·99	·97	·65	10·7	11·9
June	·12	·33	·42	·47	·56	·57	·53	·54	·60	·46	·43	·09	5·1	11·0
July	·00	·11	·19	·25	·24	·20	·14	·16	·10	·12	·05	·01	1·6	7·6
August	·01	·20	·26	·39	·47	·52	·37	·47	·44	36	·26	·02	3·8	9·4
September	·06	·41	·63	·72	·65	·70	·77	·76	·67	63	·47	·03	6·5	10·2
October	·09	·65	·82	·87	·85	·93	·94	·94	·98	·91	·79	·14	8·9	10·8
November	·29	·82	·89	·90	·89	·87	·86	·85	·83	·79	·70	·03	8·7	10·6
December	·31	·97	·97	·97	·97	·95	.98	·99	·98	·96	·93	·04	10·0	10·5
Mean	0·19	0·67	0·74	0·78	0·79	0·80	0·79	0·80	0·79	0·77	0·70	0·16	8·0	..

* From Campbell-Stokes Sunshine recorder.

MAGNETIC TABLES.

(ALIBAG OBSERVATORY.)

Diurnal variation of magnetic elements.

The following tables give the diurnal variation of declination (D), horizontal component of the force (H), the easterly component (Y), the vertical component (Z), the inclination (I) and the total force (F) for each month based on the hourly tabulations for the 5 international quiet days. Owing to very small value of D the variation tables of H and the northerly component of the force (X) are practically the same. No separate table for $\triangle$ X has consequently been given. The days are reckoned from 4 h. 51 m. to 3 h. 51 m. of the local mean time corresponding to the Greenwich civil day 0 h. to 23 h.

The variations in X, Y, I and F were computed from the variations in D, H and Z by means of the formulæ :

$$\triangle X = 1{\cdot}000\ \triangle H + 0{\cdot}019\ \triangle D.$$
$$\triangle Y = -0{\cdot}002\ \triangle H + 10{\cdot}827\ \triangle D.$$
$$\triangle I = 0{\cdot}075\ \triangle Z - 0{\cdot}036\ \triangle H.$$
$$\triangle F = 0{\cdot}903\ \triangle H + 0{\cdot}430\ \triangle Z.$$

A *plus* sign indicates an hourly value greater than the mean for the day.

Mean results are also given for groups of four months, as indicated by the Roman numerals at the head of the columns :—I January, February, November, December ; II March, April, September, October ; III May, June, July, August.

All diurnal inequalities have been corrected for the aperiodic change by the formula $\frac{N(12-n)}{24}$ where 'N' denotes the excess at the second midnight of the representative day as compared to the first midnight, and 'n' denotes any hour of the day reckoned from 0 (first midnight) to 24. The actual non-cyclic corrections applied, namely, $(a_{24} - a_0)$ in the different months of the year have been given under the respective columns of the tables for $\triangle$D, $\triangle$H and $\triangle$Z.

The "allowance for the use of the Means", which is given by $u_p = m_p + \frac{1}{12}\left(m_p - \frac{m_{p+1} + m_{p-1}}{2}\right)$, where u_p is the true ordinate and m_{p-1}, m_p, m_{p+1} the successive mean ordinates, is very small and less than 1γ in the case of H and V and 0·1 minute of arc in the case of D. Although small, the corrections have been used in determining the last significant figure in the following variation tables.

[INTERNATIONAL QUIET DAYS, GREENWICH MEAN TIME.]

Hour.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Group means.			Year.
	I	I	II	II	III	III	III	III	II	II	I	I	I	II	III	
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
0	−0·1	−0·3	−0·3	+0·2	+0·4	+0·5	+0·7	+0·7	+0·6	−0·3	−0·1	−0·2	−0·2	+0·1	+0·5	+0·1
1	−0·1	−0·4	−0·3	+0·6	+1·3	+1·5	+1·7	+1·7	+1·5	0·0	−0·1	−0·3	−0·2	+0·5	+1·5	+0·6
2	0·0	−0·1	+0·6	+1·8	**+2·1**	+2·1	+2·7	**+2·8**	+2·8	+0·7	+0·3	−0·3	0·0	+1·5	+2·4	+1·3
3	+0·5	+1·0	+1·3	**+2·6**	+2·0	**+2·2**	**+3·0**	+2·8	**+3·1**	**+1·7**	**+1·0**	+0·2	+0·7	**+2·2**	**+2·5**	**+1·8**
4	**+1·5**	+2·1	**+1·5**	+2·1	+1·2	+1·6	+1·5	+1·5	+1·5	+1·5	+0·9	+0·6	**+1·3**	+1·7	+1·4	+1·5
5	+0·7	**+2·2**	+1·2	+0·7	−0·4	+0·2	0·0	−0·1	−0·8	+0·6	0·0	0·0	+0·7	+0·4	−0·1	+0·4
6	−0·5	+1·1	+0·4	−1·0	−1·7	−1·3	−1·4	−1·7	−2·5	−0·4	−1·1	**−1·1**	−0·4	−0·9	−1·5	−0·9
7	**−1·5**	−0·4	−0·5	−2·3	**−2·3**	**−2·6**	−2·2	−2·6	−3·2	**−1·5**	**−1·2**	−1·0	**−1·0**	−1·9	−2·4	**−1·8**
8	−1·5	−1·2	−0·9	**−2·7**	−2·1	−2·4	−2·7	**−2·7**	**−3·3**	−1·5	−0·7	−0·4	−1·0	**−2·1**	**−2·5**	−1·8
9	−1·2	**−1·3**	**−1·0**	−2·0	−1·3	−1·7	**−2·8**	−2·5	−2·6	−1·0	−0·2	0·0	−0·7	−1·7	−2·1	−1·5
10	−0·3	−1·0	−0·6	−0·9	−0·5	0·0	−1·8	−1·5	−1·2	−0·4	−0·2	+0·5	−0·3	−0·8	−0·9	−0·7
11	+0·4	−0·5	−0·2	0·0	+0·4	−0·3	−0·9	−0·6	+0·2	+0·2	−0·1	**+0·7**	+0·1	+0·1	−0·3	−0·1
12	+0·4	0·0	−0·1	+0·3	+0·7	+0·3	+0·2	+0·1	+0·9	+0·3	0·0	+0·4	+0·2	+0·3	**+0·3**	+0·3
13	+0·1	−0·2	−0·1	+0·2	+0·5	+0·4	+0·5	+0·5	+0·5	0·0	0·0	−0·1	0·0	+0·2	+0·5	+0·2
14	+0·2	+0·1	−0·1	−0·2	−0·3	+0·1	+0·1	+0·1	+0·2	−0·1	+0·2	+0·2	+0·2	−0·1	0·0	+0·1
15	+0·3	+0·2	−0·1	−0·3	−0·3	−0·1	−0·2	0·0	+0·1	0·0	+0·4	+0·2	+0·3	−0·1	−0·2	0·0
16	+0·3	+0·1	0·0	−0·1	−0·3	−0·1	−0·2	−0·1	+0·1	0·0	+0·1	+0·1	+0·2	0·0	−0·2	0·0
17	+0·2	−0·1	−0·1	0·0	−0·2	−0·1	0·0	0·0	+0·1	0·0	+0·1	+0·1	+0·1	0·0	−0·1	0·0
18	+0·2	−0·2	−0·1	+0·1	−0·1	0·0	0·0	+0·1	+0·2	+0·1	+0·2	+0·1	+0·1	+0·1	0·0	+0·1
19	+0·2	−0·1	+0·1	+0·1	0·0	+0·1	+0·2	+0·2	+0·3	+0·1	+0·2	+0·1	+0·1	+0·2	+0·1	+0·1
20	+0·2	−0·1	0·0	+0·2	+0·1	+0·1	+0·3	+0·3	+0·4	+0·1	+0·3	+0·1	+0·1	+0·2	+0·2	+0·1
21	+0·1	−0·1	0·0	+0·2	+0·1	+0·2	+0·4	+0·4	+0·4	0·0	+0·1	0·0	0·0	+0·2	+0·3	+0·1
22	0·0	−0·3	−0·2	+0·2	+0·2	+0·1	+0·4	+0·4	+0·3	0·0	0·0	0·0	−0·1	+0·1	+0·3	+0·1
23	−0·1	−0·3	−0·3	+0·1	+0·2	+0·2	+0·4	+0·4	+0·3	−0·1	0·0	−0·1	−0·1	0·0	+0·3	+0·1
Non-cyclic change. (24h—oh.)	+0·01	−0·14	+0·16	+0·04	−0·07	+0·18	−0·21	−0·01	−0·08	−0·01	−0·21	−0·06				

DIURNAL VARIATION OF H, 1929

[INTERNATIONAL QUIET DAYS, GREENWICH MEAN TIME.]

	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
0	−9	−7	−8	−13	−10	−15	−14	−8	−8	−7	−6	−11	−8	−9	−12	−10
1	−7	−6	−8	−13	−9	−11	−13	**−13**	−9	−7	−4	−8	−6	−9	−12	−9
2	−5	−3	−8	−9	−5	−4	−9	−12	**−11**	−6	+1	−2	−2	−8	−7	−6
3	+1	+2	+1	0	+5	+9	+4	−7	−9	−1	+5	+7	+4	−2	**+3**	+1
4	+6	+8	+13	+17	+16	+19	+19	+4	+4	+11	+12	+18	+11	+11	+15	+12
5	+17	+13	+26	+34	+28	+30	+32	+18	+19	+24	+19	+31	+20	+26	+27	+24
6	+30	+21	**+33**	**+42**	**+34**	**+37**	+37	+29	**+26**	+32	+26	**+41**	+29	**+33**	+34	+32
7	**+33**	**+25**	+33	+41	+31	+36	**+38**	**+35**	+25	**+33**	**+27**	+41	**+32**	+33	**+35**	**+33**
8	+29	+23	+28	+31	+26	+32	+35	+34	+21	+24	+21	+27	+25	+26	+32	+28
9	+15	+19	+18	+20	+19	+25	+25	+25	+15	+14	+11	+12	+14	+17	+23	+18
10	+5	+9	+8	+9	+10	+11	+12	+17	+7	+5	+3	+1	+5	+7	+13	+8
11	−3	+4	0	+1	−2	+2	0	+7	+1	−3	−4	−5	−2	0	+2	0
12	−7	−3	−2	−5	−9	−7	−7	−1	−3	−5	−8	−9	−7	−4	−6	−5
13	−7	−4	−4	−8	−12	−13	−13	−7	−3	−7	−8	−11	−7	−6	−11	−8
14	−6	−8	−7	−11	**−14**	−15	−15	−11	−4	−9	−11	−11	−9	−8	−14	−10
15	−10	−9	−13	−13	−13	−15	**−15**	−12	−8	−11	−13	−13	−11	−11	−14	−12
16	**−13**	**−11**	**−15**	−15	−12	**−17**	−15	−13	−9	**−14**	**−17**	**−16**	**−14**	**−13**	−14	**−14**
17	−12	−11	−15	**−17**	**−12**	−17	**−16**	−13	−9	−14	−15	−16	−13	−13	**−15**	−14
18	−11	−11	−14	−17	−11	−17	−15	−12	−8	−12	−10	−13	−11	−13	−14	−13
19	−10	−11	−14	−17	−13	−16	−14	−12	−8	−11	**−6**	−13	−10	−12	−14	−12
20	−8	−11	−14	−13	**−13**	−16	−13	−13	−8	−12	−7	−11	**−9**	−11	−14	−11
21	−8	−11	−15	−16	−11	−15	−15	−12	−8	−11	−6	−12	−9	−12	−13	−12
22	−10	−9	−12	−15	−11	−14	−15	−11	−7	−9	−6	−13	−9	−11	−13	−11
23	−10	−8	−12	−14	−12	−14	−12	−9	−7	−7	−7	−13	−9	−10	−12	−10
Non-cyclic change. (24h—oh.)	+6·0	+3·0	+12·5	+6·8	+2·4	+3·1	+8·5	+2·2	+5·3	+5·4	+9·4	+10·1				

DIURNAL VARIATION OF Y, 1929.

[INTERNATIONAL QUIET DAYS, GREENWICH MEAN TIME.]

	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
0	−1	−4	−3	+3	+4	+6	+7	+7	+6	−3	−1	−2	−2	+1	+6	+1
1	−1	−4	−3	+7	+14	+16	+19	+18	+17	0	−1	−3	−2	+5	+17	+7
2	0	−1	+6	+20	**+23**	+23	**+30**	**+30**	+30	+8	+3	−4	−1	+16	+26	+14
3	+6	+11	+14	**+28**	+22	**+24**	+33	+30	**+34**	**+18**	**+11**	+2	+7	**+24**	**+27**	**+19**
4	**+16**	+21	**+16**	+23	+13	+17	+16	+16	+16	+16	+10	**+6**	**+14**	+18	+15	+16
5	+8	**+24**	+13	+8	−4	+2	0	−1	−9	+7	0	0	+8	+5	−1	+4
6	−6	+11	+5	−11	−18	−14	−15	−19	−28	−4	−12	**−12**	−5	**−9**	−17	−10
7	−16	−5	−5	−25	**−25**	**−28**	−24	−28	−35	**−17**	**−13**	−11	**−11**	−21	−26	−19
8	**−17**	−13	−10	**−29**	−23	−26	−29	**−29**	**−36**	−16	−7	−5	−10	**−23**	**−27**	**−20**
9	−13	−14	**−11**	−22	−14	−19	**−30**	−27	−28	−11	−2	0	−7	−18	−22	−16
10	−4	−11	−7	−10	−5	0	−19	−16	−13	−4	−2	+5	−3	−8	−10	−7
11	+4	−6	−2	0	+4	−3	−9	−6	+2	+2	−1	**+8**	+1	+1	−3	−1
12	+5	0	−1	+4	+8	+3	+2	+1	+9	+3	0	+5	+2	+4	+4	+3
13	+2	−2	−1	+3	+5	+4	+5	+6	+5	0	0	−1	0	+2	+5	+2
14	+3	+1	−1	−2	−3	+1	+1	+1	+2	−1	+2	+3	+2	−1	0	+1
15	+3	+3	−2	−3	−4	−1	−2	0	+1	0	+4	+2	+3	−1	−2	0
16	+3	+1	0	−1	−3	−1	−2	−1	+1	0	+1	+1	+2	0	−2	0
17	+2	−1	−1	0	−2	−1	0	0	+1	0	+2	+1	+1	0	−1	0
18	+2	−2	−1	+1	−1	0	0	+1	+2	+1	+2	+2	+1	+1	0	+1
19	+2	−1	+1	+1	0	+1	+2	+2	+3	+1	+2	+2	+1	+2	+1	+1
20	+2	−1	0	+2	+1	+1	+3	+3	+4	+1	+3	+1	+1	+2	+2	+2
21	+1	−1	0	+3	+1	+2	+5	+4	+4	0	+1	0	0	+2	+3	+2
22	0	−3	−3	+2	+2	+2	+5	+4	+4	0	0	0	−1	+1	+3	+1
23	−1	−3	−3	+1	+3	+2	+5	+5	+4	−1	0	−1	−1	0	+3	+1

DIURNAL VARIATION OF Z, 1929.

[INTERNATIONAL QUIET DAYS, GREENWICH MEAN TIME.]

Hours.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Group means.			Year.
	I	I	II	II	III	III	III	III	II	II	I	I	I	II	III	
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
0	0	+4	−2	+5	+6	+7	+5	+7	+10	+1	+8	+1	+3	+3	+6	+4
1	+1	+5	+1	+10	**+12**	**+11**	+10	**+13**	+16	+3	+9	+1	+4	+7	**+11**	+8
2	+2	+8	+4	**+13**	+10	+10	+6	+12	**+17**	**+9**	+13	0	+6	**+11**	+10	**+9**
3	**+7**	**+14**	+1	+4	+1	+6	−1	+2	0	+6	**+14**	+3	**+9**	+3	+2	+5
4	+4	+12	−4	−7	−12	−3	−13	−10	−22	−4	+7	−2	+5	−9	−10	−5
5	−10	+1	**−11**	−18	**−20**	−14	**−21**	−24	−34	−13	−5	−12	−6	−19	−20	−15
6	**−20**	−13	**−17**	**−21**	−20	**−24**	−21	**−25**	**−35**	**−18**	**−25**	**−13**	**−17**	**−23**	**−22**	**−21**
7	−16	**−23**	−15	−21	−16	−20	−16	−17	−30	−15	−18	−3	−15	−20	−17	−18
8	−6	−17	−9	−10	−8	−11	−12	−11	−20	−6	−12	+4	−8	−11	−11	−10
9	−3	−10	−3	+1	+1	−4	−5	−6	−5	0	−9	**+7**	−4	−2	−3	−3
10	+3	−3	−1	**+8**	+7	+3	+3	+2	+5	+3	−9	+7	0	+3	+4	+2
11	+6	+1	−1	+7	+8	+6	+9	+7	+9	+2	−6	+4	+1	+5	+8	+4
12	+2	+1	−1	+3	+4	+6	**+12**	+6	+7	−1	−5	−3	−1	+2	+7	+3
13	0	−1	+1	−1	−1	+3	+7	+3	+2	−1	−2	−3	−1	0	+3	+1
14	+4	+2	+2	−2	−3	0	+1	0	+3	+1	+1	+2	+2	+1	0	+1
15	+3	+2	+3	+1	0	0	+2	+1	+5	+1	+1	0	+1	+2	+1	+2
16	+2	+1	+4	+2	+3	+1	+3	+2	**+6**	+2	+3	0	+1	+3	+2	+2
17	+3	+1	+5	+3	+4	+2	+5	+4	+8	+3	+3	+2	+2	+5	+4	+3
18	+4	+2	+7	+4	+4	+3	+5	+5	+9	+4	+5	+2	+3	+6	+4	+5
19	+4	+2	**+8**	+4	+4	+3	+5	+5	+10	+5	+5	+2	+3	+7	+4	+5
20	+3	+2	+8	+4	+5	+3	+5	+6	+10	+5	+5	+1	+3	+7	+5	+5
21	+3	+2	+7	+4	+5	+3	+4	+5	+10	+5	+5	+1	+3	+6	+4	+4
22	+3	+2	+6	+3	+5	+3	+3	+5	+10	+5	+5	0	+2	+6	+4	+4
23	+2	+3	+7	+3	+6	+3	+3	+5	+11	+5	+6	−1	+2	+7	+4	+5
Non-cyclic change. (24h—0h.)	+2·4	−10·3	−2·0	−1·8	−5·0	−3·1	+13·4	−0·8	−5·2	−4·8	−10·7	+9·4				

DIURNAL VARIATION OF I, 1929.

[INTERNATIONAL QUIET DAYS, GREENWICH MEAN TIME.]

	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
0	+0·3	+0·6	+0·1	+0·8	+0·9	+1·0	+0·9	+0·8	+1·0	+0·3	+0·8	+0·5	+0·5	+0·5	+0·9	+0·7
1	+0·4	+0·6	+0·4	+1·2	**+1·2**	**+1·2**	**+1·2**	**+1·5**	+1·5	+0·4	+0·8	+0·3	+0·5	+0·9	**+1·3**	**+0·9**
2	+0·3	+0·7	+0·6	**+1·3**	+0·9	+0·9	+0·8	+1·3	**+1·7**	**+0·8**	**+1·0**	+0·1	+0·5	**+1·1**	+1·0	+0·9
3	+0·5	**+0·9**	+0·1	+0·3	−0·1	+0·2	−0·2	+0·3	+0·3	+0·5	+0·9	0·0	+0·6	+0·3	+0·1	+0·3
4	+0·1	+0·6	−0·8	−1·2	−1·5	−0·9	−1·7	−0·9	−1·8	−0·7	+0·1	−0·7	0·0	−1·1	−1·3	−0·8
5	−1·4	−0·4	−1·8	−2·5	−2·5	−2·1	−2·6	−2·4	−3·3	−1·9	−1·0	−2·0	−1·2	−2·4	−2·4	−2·0
6	**−2·6**	−1·8	**−2·5**	**−3·1**	**−2·7**	**−3·1**	**−2·9**	**−2·9**	**−3·5**	**−2·5**	**−2·8**	**−2·4**	**−2·4**	**−2·9**	**−2·9**	**−2·7**
7	−2·4	**−2·6**	−2·3	−3·0	−2·3	−2·8	−2·6	−2·5	−3·1	−2·4	−2·4	−1·8	−2·3	−2·7	−2·5	−2·5
8	−1·4	−2·1	−1·7	−1·8	−1·5	−1·9	−2·2	−2·0	−2·2	−1·4	−1·6	−0·7	−1·5	−1·8	−1·9	−1·7
9	−0·7	−1·4	−0·8	−0·6	−0·6	−1·2	−1·2	−1·4	−0·9	−0·5	−1·1	+0·1	−0·8	−0·7	−1·1	−0·9
10	0·0	−0·5	−0·4	+0·3	+0·2	−0·3	−0·2	−0·5	+0·2	0·0	−0·7	+0·4	−0·2	0·0	−0·2	−0·1
11	+0·6	0·0	0·0	+0·5	+0·7	+0·4	+0·7	+0·3	+0·7	+0·3	−0·4	+0·5	+0·2	+0·4	+0·5	+0·4
12	+0·5	+0·2	0·0	+0·4	+0·6	+0·7	+1·2	+0·5	+0·6	+0·1	−0·1	+0·1	+0·2	+0·3	+0·7	+0·4
13	+0·2	0·0	+0·1	+0·3	+0·3	+0·7	+1·0	+0·6	+0·3	+0·2	+0·2	+0·2	+0·1	+0·2	+0·7	+0·3
14	+0·5	+0·4	+0·4	+0·3	+0·3	+0·5	+0·6	+0·4	+0·3	+0·4	+0·5	+0·5	+0·5	+0·3	+0·5	+0·4
15	+0·5	+0·5	+0·7	+0·5	+0·5	+0·5	+0·6	+0·6	+0·6	+0·5	+0·6	+0·5	+0·5	+0·6	+0·5	+0·5
16	**+0·7**	+0·4	+0·8	+0·7	+0·6	+0·7	+0·7	+0·7	+0·8	+0·6	+0·8	+0·6	+0·6	+0·7	+0·7	+0·7
17	+0·6	+0·4	+0·9	+0·9	+0·7	+0·8	+1·0	+0·8	+0·9	+0·7	+0·7	**+0·7**	+0·6	+0·9	+0·8	+0·8
18	+0·7	+0·5	+1·0	+0·9	**+0·7**	+0·8	+0·9	+0·8	+1·0	+0·7	+0·7	+0·7	**+0·7**	+0·9	+0·8	+0·8
19	+0·6	+0·6	**+1·1**	+0·9	+0·8	+0·8	+0·9	+0·8	+1·0	+0·8	+0·6	+0·6	+0·6	+0·9	+0·8	+0·8
20	+0·5	+0·6	+1·1	+0·8	+0·8	+0·9	+0·8	+0·9	+1·0	+0·7	+0·6	+0·5	+0·5	+0·9	+0·9	+0·8
21	+0·5	+0·6	+1·0	+0·9	+0·7	+0·8	+0·8	+0·8	+1·0	+0·7	+0·6	+0·4	+0·5	+0·9	+0·8	+0·7
22	+0·5	+0·4	+0·9	+0·7	+0·8	+0·7	+0·7	+0·8	+0·9	+0·7	+0·6	+0·5	+0·5	+0·8	+0·7	+0·7
23	+0·5	+0·5	+0·9	+0·8	+0·8	+0·8	+0·6	+0·7	+1·0	+0·6	+0·6	+0·4	+0·5	+0·8	+0·7	+0·7

DIURNAL VARIATION OF F, 1929.

[INTERNATIONAL QUIET DAYS, GREENWICH MEAN TIME.]

	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
0	−8	−5	−8	−10	−7	−11	−10	−5	−3	−6	−1	−10	−6	−7	−8	−7
1	−6	−3	−7	−7	−3	−5	−8	−6	−2	−5	+1	−7	−4	−5	−6	−5
2	−4	+1	−5	−3	0	+1	−5	−5	−3	−1	+6	+1	+1	−3	−2	−1
3	+4	+8	+1	+1	+4	+11	+3	−5	**−8**	+2	+11	+7	+7	−1	+3	+3
4	+7	+12	+10	+12	+9	+16	+12	−1	−5	+8	+14	+15	+12	+6	+9	+9
5	+11	+12	+18	+23	+16	+21	+20	+6	+3	+16	+15	+23	+15	+15	+16	+15
6	+19	**+14**	**+23**	**+29**	**+22**	+23	+25	+15	+9	+21	+13	+31	+19	+20	+21	+20
7	+23	+13	+23	+28	+21	+23	**+27**	+24	+10	**+23**	**+17**	**+35**	**+22**	**+21**	**+24**	**+22**
8	**+24**	+14	**+22**	+24	+20	**+24**	+26	**+26**	+10	+19	+14	+26	+19	+19	+24	+21
9	+12	+13	+15	+19	+18	+21	+21	+20	**+11**	+13	+6	+13	+11	+14	+20	+15
10	+6	+7	+6	+12	+12	+14	+12	+16	+8	+5	−1	+4	+4	+8	+13	+9
11	0	+4	0	+3	+1	+5	+3	+10	+4	−1	−7	−3	−1	+2	+5	+2
12	−5	−2	−3	−3	−7	−3	−1	+2	+1	−5	−10	−10	−7	−3	−2	−4
13	−6	−4	−3	−7	−12	−10	−9	−5	−2	−7	−8	−11	−7	−5	−9	−7
14	−4	−7	−6	−11	**−13**	−13	**−13**	−10	−3	−7	−9	−9	−7	−7	**−13**	−9
15	−8	−7	−10	−11	−11	−14	−13	**−11**	−5	−9	−11	−12	−9	−9	−12	−10
16	**−11**	**−10**	**−12**	−12	−10	**−15**	−13	−11	−5	**−11**	**−14**	**−15**	**−12**	**−10**	−12	**−11**
17	−9	−9	**−11**	−13	−9	−14	−12	−10	−5	−11	−12	−14	−11	−10	−11	−11
18	−8	−9	−10	**−14**	−9	−14	−12	−9	−3	−9	−7	**−11**	−9	−9	−11	−9
19	−7	−9	−9	−13	−10	−13	−11	−9	−3	−8	−3	−11	−7	−8	−11	−9
20	−6	−9	−9	−10	−10	−13	−10	−9	−3	−9	−4	−9	−7	−8	−10	−8
21	−6	−9	−11	−13	−8	−12	−12	−9	−3	−8	−3	−11	−7	−8	−10	−9
22	−8	−8	−8	−12	−8	−11	−12	−7	−2	−6	−3	−11	−7	−7	−10	−8
23	−8	−6	−7	−11	−8	−11	−10	−6	−1	−4	−3	−12	−7	−6	−9	−7

(Averages for periods of sixty minutes centred at the full hours of Greenwich mean time.)

JANUARY. 0° PLUS TABULAR QUANTITIES.

Date.	Hours. (G. M. T.)														
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
1†	5·2	4·9	4·2	3·0	2·9	5·2	5·7	5·9	5·7	5·6	5·0	4·6	4·6	4·6	4·6
2	4·9	5·1	5·0	3·9	3·6	4·7	5·6	5·8	6·2	6·5	5·9	5·0	4·8	5.1	5·0
3	6·0	5·9	5·2	3·3	2·6	3·3	4·7	5·4	6·0	6·7	6·7	5·8	5·1	5·1	4·7
4	4·9	4·8	4·6	3·7	2·9	3·4	5·1	6·8	5·7	5·2	4·2	3·7	3·8	4·2	4·5
5	5·8	5·6	5·0	3·2	1·2	1·8	4·3	5·3	6·4	6·9	6·9	6·2	4·6	4·7	4·4
6	5·3	5·1	4·9	4·2	2·7	2·3	4·3	5·1	4·9	4·3	4·3	4·3	4·7	4·8	4·6
7	5·3	5·3	4·8	3·3	2·1	2·4	3·7	5·3	5·9	6·3	6·3	5·8	5·0	5·0	4·6
8	5·5	5·6	5.0	4·2	3·3	3·2	4·3	5·8	6·1	5·1	5·0	4.4	4·4	4·6	4·3
9	6·0	6·1	5·6	4·2	3·2	3·4	5·5	6·4	6·0	5·3	4·8	4·4	4·5	5·0	4·3
10	5·3	5·3	5·5	4·9	4·1	3·4	4·5	5·7	5·2	4·4	4·3	4·4	4·6	4·9	4·4
11	5·4	6·2	5·8	5·7	4·3	4·6	5·3	5·3	4·4	4·9	5·2	5·5	5·5	5·2	4·9
12	5·1	5·4	5·4	4·6	3·3	3·2	4·1	4·1	3·5	4·4	5·0	5·2	5·3	5·3	4·9
13	5·4	5·5	5·5	4·1	2·3	2·7	5·3	5·6	4·8	4·9	5·0	5·0	4·9	5·3	5·0
14	5·3	5·4	5·0	3·8	2·9	3·4	4·7	4·9	4·9	4·9	4·5	4·3	4·7	5·1	4·3
15	5·5	5·6	5·3	4·7	3·8	3·7	3·7	3·8	3·9	4·7	5·3	4·9	4·9	4·7	4·6
16	5·1	5·3	5·3	4·2	2·6	2.9	4·3	4·7	4·6	4·6	4·6	4·4	4·4	5·0	4·8
17†	5·4	5·2	5·2	4·6	4·0	4·7	5·7	7·0	7·5	6·8	6·2	5·4	5·2	5·3	5·2
18†	5·2	5·2	5·1	4·2	2·8	3·5	6·2	7·0	6·6	5·9	4·9	4·1	4·4	5·3	5·4
19†	5·4	5·4	5·8	5·8	4·4	4·6	6·4	7·3	7·1	7·2	6·1	5·1	4·6	4·8	4·8
20	5·8	5·8	5·6	4·3	2·3	1·8	4·0	5·6	5·7	5·4	5·1	4·9	4·9	4·9	4·9
21	5.4	5·7	5·6	4·9	3·3	3·4	5·9	8·0	8·0	7·3	6·5	5·3	4·5	4·9	4·7
22	5·7	5·8	5·7	5·0	3·7	3·2	4·2	4·9	4·7	4·4	4·9	5·0	5·3	5·3	5·0
23†	5·4	5·5	5·6	5·6	4·8	4·3	4·7	5·9	6·7	6·1	5·4	4·9	5.1	5·2	4·7
24	5·3	5·5	5·6	4·7	2·6	1·8	2·7	3·7	3·7	4·1	4·9	4·9	5·3	5·4	5·1
25	5·4	5·8	6·4	6·1	4·4	3·7	4·7	6·7	7·0	6.5	5.3	4·4	4·4	4·9	4·9
26	5.5	5·9	6·3	5·6	4·5	3·2	4·3	5·6	5·3	5·3	5·1	5·1	5·6	5·9	5·6
27	5·3	5·9	6·0	5·3	3·8	3·4	4·4	5·3	4·0	4·0	4·0	3·9	4·2	5·0	5·0
28	5·3	5·5	5·5	5·3	4·1	3·7	5·1	6·5	6·1	5·2	4.5	4·4	4·5	5·3	5·2
29	5·3	5·5	5·3	3·8	3·5	4·2	5.4	6·5	6·5	5·8	5·3	4·5	4·4	5·1	4·9
30	4·9	5·3	5·4	5·3	4·9	5·3	6·5	7·2	7·2	6·5	5·7	5·3	5·2	5·2	5·1
31	5·2	5·2	5·2	4·3	2·9	2·7	4·3	7·0	7·4	6·8	6·1	4·9	4·6	5·1	5·0
Mean . .	5·4	5·5	5·4	4·5	3·3	3·5	4·8	5.8	5·7	5·5	5·3	4·9	4·8	5·0	4·8
Mean† . .	5·3	5·3	5·2	4·6	3·8	4·5	5·7	6·6	6·7	6·3	5·5	4·8	4·8	5·0	4·9

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1	4·7	4·7	4·3	2·8	3·0	4·5	7·5	9·1	8·5	7·0	5·3	4·0	3·9	4·6	4·4
2	5·6	5·3	4·9	3·8	3·0	3·8	5·3	8·0	8·1	7·3	6·1	4·9	4·4	4·9	4·9
3†	5·6	5·5	4·4	2·7	1·7	2·4	4·2	5·5	6·1	6·8	6·8	6·2	5·6	5·6	5·4
4†	5·8	5·8	5·4	4·5	3·5	3·4	4·3	6·5	7·0	7·0	7·0	6·3	5·5	5·5	5·0
5†	5·7	5·7	5·7	4·4	2·1	1·9	3·9	6·1	7·9	7·5	6·6	5·5	5·1	5·7	5·5
6	6·1	6·2	5·9	5·4	4·0	3·5	4·4	5·7	6·7	6.8	7·0	6·2	6·1	5·9	5·5
7	5·5	6·1	6·8	6·4	5·0	4·3	4·6	5·7	5·5	5·5	5·6	5·1	5·0	5·4	5·1
8	5·6	5·9	5·8	5·4	4·5	4·2	4·6	5·6	6·4	6·4	5·9	5·7	5·8	5·5	5·0
9	6·0	5·7	6·1	5·5	4·4	3·9	3·8	4·4	4·8	4·7	5·1	4·9	4·6	4·5	4·9
10	6·1	6·2	6·2	5·9	5·2	4·6	5·2	6·0	6·2	7·0	6·6	5·7	4·1	4·9	5·1
11	5·8	6·1	6·1	5·3	4·2	3·5	4·4	5·3	5·7	5·5	5.5	5·0	4·5	4.6	4·6
12	6.1	6·1	5·8	4·8	3·6	3·3	4·1	5·4	5·9	6·4	6·5	6·4	5·8	5·4	5·1
13	5·7	5·7	5·4	4·5	3·7	3·9	4·3	5·6	6·2	6·1	5·5	5·1	5·0	5·3	5·3
14†	5·7	5·7	5·9	5·5	4·8	4·4	4·7	5·4	5·8	5·8	5·6	5·6	5·2	5·1	5·2
15†	5·4	5·5	5·3	4·5	3·9	3·7	4·1	5·1	5·7	5·8	5·8	5·7	5·5	5·6	5·2
16	5·9	5·9	6·2	5·8	5·0	5·0	5·3	5·9	6·2	5·9	5·3	5·5	5·8	5·7	5·2
17	5·4	5·6	6·1	5·6	4·1	4·3	3·4	3·7	4·6	4·7	4·7	4·6	5·0	3·9	3·7
18	5·9	5.1	5·7	5·6	4·4	3·5	3·8	4·8	5·1	5·1	5·2	5·2	4·9	4·9	4·6
19	4·1	4·9	5·3	5·6	5·3	5·4	5·3	5·7	6·1	6.0	6·0	5·9	5·4	5·1	4·8
20	4·5	4·7	4·8	4·8	4·1	3·7	4·3	5·7	6·3	6·0	5·8	5·5	4·9	4·8	4·9
21	4·7	5·0	5·1	4·1	3·5	3·0	3·7	5·4	5·9	6·1	5·7	5.7	5·2	5·1	5·0
22	4·9	5·2	5·6	4·9	3·8	3·5	4·0	4·8	5·2	5·7	5·7	5·1	4·7	4·9	5·0
23	4·4	4·6	4·7	4·4	3·9	3·9	4·8	5·9	6·0	5·8	5·5	4·8	4·5	4·8	4·8
24	5·4	5·3	5·1	4·3	3·9	4·0	5·0	6·0	5·9	5·6	5·0	4·7	4·5	5.1	5·1
25	4·9	5·1	4·9	4·0	3·6	3·9	4·9	5·8	5·8	5·5	4·9	4·6	4·7	5·2	5·5
26	4·5	4·6	4·1	2·9	2.7	3·5	4·1	5·5	5·8	5.7	5·3	4·7	4·5	4·9	5·1
27	4·5	4·5	4·1	3·8	3·2	4·4	4·9	6·1	6·1	6.6	5·6	5·4	4.7	5·1	5·5
28	3·6	3·2	3·9	3·7	3·1	3·6	4·0	4·3	4·1	4·6	4·6	4·9	3·9	2·2	1·4
Mean . .	5·3	5·3	5·3	4·7	3·8	3.8	4·5	5·7	6·1	6·0	5·7	5·3	5·0	5·0	4·9
Mean† . .	5·6	5·6	5·4	4·3	3·2	3.1	4·3	5·7	6·5	6·6	6·4	5·9	5·4	5·5	5·3

† Five international quiet days.

(Averages for periods of sixty minutes centred at the full hours of Greenwich mean time.)

JANUARY. 0° PLUS TABULAR QUANTITIES.

Hours. (G. M. T.)									Mean.*	Maximum.		Minimum.		Date.
15	16	17	18	19	20	21	22	23		Time.	Mag.	Time.	Mag.	
′	′	′	′	′	′	′	′	′	′	H. M.	′	H. M.	′	
4·7	4·8	5·0	5·0	5·0	5·0	4·9	5·0	5·1	4·8	3 30	2·7	7 30	6·1	1†
5.0	5·0	5·1	5·1	5·1	5·3	5.3	5·6	5·8	5.2	3 38	2.7	8 46	6·8	2
4·9	4·8	5·1	5·1	4·4	4·5	4·3	4·1	4·4	4·9	3 42	2·6	9 30	6·9	3
4.7	4·8	5·0	5·1	5·1	5·1	5·1	5·6	5·7	4·8	4 18	2·6	6 50	7.7	4
4·6	4·3	4·3	4·1	3·4	3·6	3·6	4·2	4·7	**4·5**	4 14	**1·0**	9 6	7·2	5
4·7	4.5	4·5	4·4	4·7	4·8	4·7	4·9	5·1	4·5	4 46	2·1	7 30	6·0	6
4·6	4·8	4·8	5·0	5·0	5·0	5·0	5·1	5·4	4·8	4 10	2·0	8 58	6·5	7
4·1	4·7	4·8	4·7	4·7	4·7	4·8	5·1	6·2	4·8	4 38	3·1	7 30	6·6	8
4·2	4·1	3·9	4·0	4·1	3·7	3·8	4·0	5·0	4·6	4 12	3·1	7 18	6·7	9
4·4	4·2	4·5	4·5	4·4	4·4	4·7	5·1	5·1	4·7	4 46	3·2	7 6	6·0	10
4·6	4·4	4·4	4·4	4·4	4·5	4·5	4·9	4·9	4·9	4 6	4·2	1 10	7·3	11
4·6	4·7	4·6	4·8	4·9	4·8	4·9	5·1	5·3	4·7	4 42	3·1	1 24	5·5	12
4 9	4.8	4·8	4·7	4.7	4·7	4·7	4·9	5·0	4·7	4 30	2·1	6 30	6·1	13
3·4	4·2	4·5	4·7	4·8	5·1	5·0	5·0	5·1	4·6	4 18	2·9	1 2	6·0	14
4·6	4·9	5·0	4·8	4.9	4·9	4·9	5·0	5·1	4·7	4 10	3·7	1 34	6·1	15
4·9	4·8	4·8	4·9	5·0	5·0	5·0	5·0	5.2	4·7	4 34	2·6	1 30	6·0	16
5·0	4·9	5·0	5·1	4·9	4·9	4·9	4·9	5·0	5·3	4 18	4·0	7 30	8·0	17†
5·2	5·0	5·2	5·2	5·2	5·2	5·3	5·4	5·4	5·1	4 14	2·7	6 30	**7·2**	18†
4·8	4·9	4·9	5·1	5·3	5·3	5·3	5·4	5·6	**5·5**	4 30	4·2	7 2	7·4	19†
4·9	5·0	5·1	5·1	5·2	5·1	5·0	5·0	5·1	4·8	4 50	1·7	7 30	6·3	20
4·6	4·9	4·9	4·5	4·7	4·9	4·9	5·1	5·3	5·3	5 38	3·0	7 6	**8·3**	21
4·9	4·8	4·9	4·9	4·9	4·8	4·5	4·6	4·8	4·8	5 2	3·1	0 30	6·1	22
4·8	4·8	4·9	4·7	4·7	4·7	5·0	5·0	5·2	5·2	5 30	4·3	8 30	6.9	23†
4·9	4·9	5·0	5·0	5·0	5·0	5·0	4·9	5·1	4·6	5 6	1·8	2 46	5·8	24
4·7	5·0	4·9	4·7	4·7	4·7	4·9	4·9	5·2	5·2	4 46	3·7	7 50	7·3	25
5·3	5·1	5·1	5·1	5·1	4·9	4·7	4·7	4·9	5·2	5 2	3·1	2 6	6·4	26
4·9	4·9	5·2	5·2	5·2	5·1	5·1	5·2	5·3	4·8	4 42	3·3	1 30	6·2	27
5·1	5·1	5·0	4·9	4·9	4·7	4·6	4.8	5·1	5·0	4 42	3·6	6 54	6·9	28
4·7	5·0	4·9	4·9	4·7	4·2	4·2	4·3	4·6	4·9	3 38	3·4	7 2	6·8	29
4·9	4·9	5·1	5·2	5·2	5·2	5·1	5·0	5·2	5·5	4 34	4·9	6 50	7·4	30
4·6	4·9	4·8	4·8	4·7	4·7	4·7	4·7	4·7	5·0	4 38	2·6	7 42	8·0	31
4·7	4·8	4·8	4·8	4·8	4·8	4·8	4·9	5·1	4·9					Mean.
4·9	4·9	5·0	5·0	5·0	5·0	5·1	5·1	5·3	5·2					Mean†

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4·9	4·9	5·0	5·0	5·0	5·3	5·2	5·4	5·4	5·2	3 46	2·7	7 2	**9·4**	1
4·8	4·8	4·9	5·0	5·3	5·3	5·4	5·5	5·5	5.3	4 10	3·0	7 18	8·4	2
5·3	5·2	5·6	5·6	5·6	5·8	5·6	5·8	5·7	5.2	4 26	1·6	9 30	7·0	3†
4·9	4·9	5·2	5·3	5·4	5·4	5·4	5·6	5·6	5·4	4 30	3·3	7 30	7·1	4†
5·5	5·6	5·7	5·8	5·7	5·6	5·8	5·9	6·1	**5·5**	4 50	1·7	8 2	7·9	5†
5·0	4·0	4·7	4·7	4·7	4·8	5·1	5·4	6·1	5·4	5 6	3·3	10 2	7·1	6
5·0	5·0	5·2	5·1	5·0	5·2	5·4	5·4	5·4	5·3	5 38	3·8	1 30	6·9	7
4·9	4.8	4·8	4·5	4·1	3·6	4·1	5·1	5·7	5·2	20 14	3·5	8 30	6·5	8
4.8	5·3	5·1	4·9	4·5	5·2	5·5	5·7	5·9	5·0	5 54	3·5	2 2	6·2	9
5·0	4·7	4 9	5·0	4·9	5·3	5·3	5·5	5·5	5·5	11 42	3·9	8 42	7·3	10
4·7	5·0	5·1	5·0	5·0	5·1	5·3	5·5	5·5	5·1	5 6	3·5	2 6	6·3	11
5·0	5·0	5·1	5·1	5·0	5·1	4·9	5·1	5·4	5·3	4 30	3·3	9 42	6·9	12
5 3	5·5	5·4	5·3	5·1	5·3	5·4	5·5	5·7	5·2	3 58	3·7	8 30	6·4	13
5·1	5·2	5·4	5·6	5·4	5·4	5·4	5·5	5·4	5·4	4 54	4·4	2 14	6·3	14†
5·0	5·3	5·5	5·7	5·5	5·5	5·5	5·8	5·8	5·3	5 10	3·6	8 30	6·2	15†
5·1	5·3	5·2	5·2	5·2	5·6	5·5	5·0	5·0	5·5	4 46	4·8	8 30	6·4	16
3·2	2·9	3·5	2·8	3·2	2·8	3·5	3·7	4·8	4·2	17 42	2·3	2 6	6·4	17
4·4	4·4	4·4	4·1	4·0	3·9	3·8	3·9	3·9	4·5	4 42	3·5	2 42	6.3	18
4·5	3·9	4·5	4·4	3·9	3·7	3·8	4·3	4·6	4·9	20 30	3·5	9 38	6·6	19
4·9	4·9	4·9	4·8	4·4	4·3	4·4	4·4	4·4	4·8	4 50	3 6	8 30	6·4	20
5·0	5·0	5·1	4·8	4·7	4·4	4·3	4·0	4·3	4·8	4 30	3·0	8 30	6·4	21
4·7	3·4	3·9	4·3	4·3	4·1	3·8	3·9	4·2	4·6	15 50	3·5	9 30	5·9	22
5·0	5·1	5·2	5·2	5·1	5·0	5·1	5·2	5·3	5·0	4 38	3·9	7 30	6·4	23
5·2	5·1	5·1	4·9	5·0	4·8	4·9	4·9	4·9	5·0	5 22	3·9	7 30	6·4	24
5·5	5·5	5·3	5·0	4·3	4·3	4·3	4·6	4·6	4·9	4 26	3·5	6 54	6·1	25
5·0	5·0	5.0	4·9	4·9	4·9	5·2	4·3	4·7	4·7	4 2	2·6	7 54	6·1	26
5·3	5·2	4·5	4·1	2·9	2·4	2·4	2·3	2·0	4·4	22 34	1·9	7 38	6·5	27
3·7	4·0	3·8	3·5	4·4	4·7	4·8	4·9	5·0	**4.0**	13 46	**1·2**	11 6	5·1	28
4·9	4·8	4.9	4·9	4·7	4·7	4·8	4·9	5·1	5·0					Mean.
5·1	5·2	5.5	5·6	5·5	5·5	5·5	5·7	5·7	5·3					Mean†

* The daily mean value of declination derived from 24 hourly values has been corrected for progressive change by 1/48th of the difference between the values of the initial and terminal hours.

†Five international quiet days.

(Averages for periods of sixty minutes centred at the full hours of Greenwich mean time.)

MARCH. 0° PLUS TABULAR QUANTITIES

Date.	Hours. (G. M. T.)														
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
1	5·4	5·8	5·5	4·6	4·1	4·2	4·7	5·0	5·4	5·2	5·2	5.2	5·2	5·0	5·1
2	5·2	5·6	5·3	4·0	3·3	3·6	4·3	5·2	5·9	5·9	4·9	4·3	4·2	4·7	4·1
3	5·5	5·5	5·4	4·4	3·8	3·9	4·7	5·7	6·3	5·6	4·4	4·1	4·1	3·9	4·4
4†	5·7	5·7	5·4	4·7	4·7	5·1	5·4	5·1	4·8	5·0	4·9	4·9	5·4	5·4	5·2
5	5·4	4·9	4·0	3·9	5·5	6·7	7·6	7·5	7·3	5·9	4·7	4·6	5·1	5·6	5·6
6†	5·3	5·3	4·9	4·9	5·2	5·6	5·8	5·6	5·8	5·8	5·4	4·9	4·9	5·4	5·3
7	5·4	5·1	4·1	3·3	3·1	4·3	5·5	6·7	7·4	6·9	5·7	5·0	5·5	5·9	5·7
8	5·0	4·7	4·1	4·4	5·9	6·9	7·3	7·0	6·8	6·5	5·4	4·7	4·4	4·7	4·5
9	5·4	5·4	4·9	3·7	3·6	4·7	5·7	6·4	6·4	5·9	5·5	5·4	5·3	5·4	5·5
10†	5·9	5·8	4·7	3·9	3·1	3·1	4·6	6·0	6·9	6·8	6·4	5·8	5·1	4·8	5·0
11	5·6	5·5	4·7	3·7	3·7	4·9	6·2	6·6	6·2	5·9	5·7	5·7	5·7	5·9	6·3
12	6·4	6·9	5·4	3·6	2·1	1·5	2·5	3·4	3·6	3·3	3·3	2·5	3·4	3·1	2·8
13	2·7	2·3	2·4	2·6	3·6	4·6	5·5	6·0	6·2	5·6	5·5	4·9	5·3	5·6	5·1
14	4·6	4·6	4·9	4·2	3·8	4·6	5·6	6·4	5·7	4·6	3·8	3·2	2·6	3·3	3·6
15	4·2	3·9	3·2	3·1	4·0	5.7	7·1	7·3	6·5	6·1	5·5	3·9	4·5	4 8	5·0
16	4·7	4·7	3·5	2·6	2·8	2·7	3·8	4·2	4·7	4·4	4·7	4·4	3·0	4·8	5·2
17	4·9	4·5	4·2	3·8	3·6	3·7	4·3	5·9	5·9	5·4	4·9	4·6	4·9	5·0	5·1
18	5·0	4·8	4·1	3·5	4·0	4·8	6·4	8·1	8·7	9·0	7·4	6·5	6·2	4·4	5·1
19	5·0	4·7	4·2	3·3	3·8	5·1	5·9	6·7	6·7	6·4	5·9	5·6	5·5	5·5	5·4
20	5·5	5·4	4·4	2·7	2·9	3·7	4·9	5·9	5·3	5·4	4·9	4·7	4·9	5·3	5·5
21	5·4	4·7	4·1	2·6	3·5	4·4	4·1	4·1	4·4	4·7	4·9	5·1	4·5	4·7	5·1
22	5·1	4·9	4·5	4·2	3·7	4·3	5·5	5·7	5·9	5·8	5·5	5·4	5·6	5·3	4.3
23	4.9	4·6	3·9	3·3	3·9	5·1	6·5	7·3	7·4	6·5	5·2	4·4	4·5	4·8	4·9
24	4·7	4·4	3·7	3·4	3·9	4.5	5·5	6·3	6·6	5·7	5·0	4.8	4·5	4·7	4·8
25	4·9	4·7	4·3	4·3	4·4	5·0	6·1	7·1	7·1	6·4	5·6	4·9	4·6	4·8	5 0
26	5·2	5·2	4·2	3·2	2·6	3·1	3·9	5·4	6·1	6·4	6·1	5·1	4·8	4·9	5·4
27	4·9	4·7	4·1	3·1	2·4	2·6	4·3	6·3	6·7	6·5	5·8	4·9	4·2	4·8	5·2
28	5·1	4·6	3·9	3·1	3·2	4·1	5·3	6·4	6·5	5·5	4·9	4·8	4·5	4·8	5·3
29	5.7	5·3	3·9	2·9	2·9	3·9	4·9	6·5	7·2	7·2	7·0	6·6	6·1	5·5	5·8
30†	6·3	6·1	4·9	3·7	3·7	4·0	4·9	6·5	7·0	6·9	6·5	6·1	5·8	5·9	6·1
31†	6·1	6·0	4·8	3·7	3·5	3·6	4·5	6·4	7·5	7·7	7·2	6·8	6·6	6·2	6·1
Mean .	5·2	5·1	4·4	3·6	3·7	4.3	5·3	6·1	6·3	6·0	5·4	5·0	4·9	5·0	5·1
Mean† .	5·9	5·8	4·9	4·2	4·0	4·3	5·1	5·9	6·4	6·5	6·1	5·7	5·6	5·5	5·6

APRIL.

1	5·8	5·5	4·4	4·3	4·5	5·1	6·4	8·2	7·5	6·4	5·9	5·2	5·3	5·6	5·8
2	6·0	5·5	4·3	3·6	3·5	3·9	4·5	5·6	6·1	5·7	5·7	5·7	5·8	5·8	5·8
3	5·8	5·5	4·3	4·3	4·4	4·7	5·7	6·5	6·7	6·6	5·9	5·1	4·8	4·6	5·1
4	5·8	5·5	4·2	3·5	3·7	4·8	5·9	6·9	7·2	6·2	4·8	4·9	4·9	5·3	5·1
5	5·5	5·0	4·0	4·0	4·2	4·5	5·5	6·7	6·9	6·6	6·0	5·3	5·3	5·9	5·7
6	5·6	5·4	4·2	3·3	3·8	4·9	5·8	7·2	7·2	6·4	5·9	5·6	5·4	5·7	5·6
7	5·6	5·2	3·5	3·1	3·8	4·7	5·7	7·1	7·6	7·2	6·8	6·1	5·1	4·6	5·3
8	5·5	5·5	3·5	2·3	2·8	4·4	4·0	7·1	7·5	7·1	6·7	6·2	5·5	5·7	5·9
9†	5·5	5·6	4·5	3·1	2·2	2·9	4·8	7·0	8·2	7·9	6·5	5·4	5·0	5·1	5·7
10	5·4	5·0	3·7	2·9	2·8	3·7	5·5	7·7	9·0	8·8	7·6	6·1	5·0	4·5	5·3
11	5·7	5·1	4·0	3·4	3·4	4·3	5·9	7·3	8·3	8·2	7·1	6·3	5·1	5·4	5·7
12	5·5	5·1	3·9	2·7	2·3	3·5	5·2	6·7	7·8	7·8	7·0	6·4	5·9	5·8	6·0
13	5·5	5·7	4·1	2·8	2·0	2·9	5·3	7·0	7·3	7·1	6·6	6·0	6·0	5·9	5·9
14†	5·2	5·4	4·3	3·6	3·8	4·7	5·9	7·1	7·7	7·6	7·0	6·0	5·4	5·3	5·8
15	5·5	5·2	4·2	4·0	4·1	4·5	5·8	7·5	8·3	8·3	7·7	6·7	5·9	5·8	6·1
16	4·8	4·4	2·8	0·5	1·0	3·0	5·2	6·9	6·6	6·6	5·9	5·1	4·8	4·8	5·0
17	5·1	4·6	3·4	2·5	2·5	3·5	5·7	7·0	7·1	6·5	5·6	5·5	5·1	4·8	5·2
18	5·4	4·9	3·6	2·8	3·2	4·3	5·7	6·7	6·8	6·1	5·7	5·5	4·9	5·2	5·7
19	4·9	4·9	3·8	2·8	3·1	4·3	5·9	6·5	6·3	5·9	5·0	4·0	3·9	4·8	5·4
20†	4·9	4·1	2·7	2·7	3·8	5·4	7·0	8·0	7·6	6·5	5·3	4·7	4·8	5·2	5·5
21	5·0	4·7	4·4	4·3	5·3	5·9	7·5	7·9	7·4	6·6	5·6	4·6	4·5	5·0	5·5
22	4·8	3·8	2·6	2·7	3·6	5·2	6·5	7·1	7·1	7·1	6·5	6·1	5·9	5·7	5·7
23†	5·5	4·8	3·5	2·9	3·2	4·6	6·5	7·5	7·7	7·0	6·0	5·1	5·1	5·3	5·7
24†	5·3	4·4	3·5	2·8	4·2	6·2	8·3	9·5	9·5	8·6	7·4	6·2	5·6	5·6	5·9
25	5·1	4·8	3·4	3·0	3·3	5·0	7·0	7·9	8·0	7·1	6·2	5·3	4·5	4·9	5·6
26	4·9	4·4	2·9	2·1	2·1	4·3	7·0	8·2	8·1	6·8	5·9	5·2	4·4	5·0	5·6
27	4·5	3·7	2·5	2·1	2·6	4·8	6·6	8·2	8·7	7·9	6·6	5·6	5·2	5·2	5·9
28	4·6	4·1	3·3	3·0	3·7	5·1	6·4	7·4	7·6	6·5	5·7	5·3	4·9	5·3	5·9
29	4·9	4·4	3·4	3·2	4·9	6·9	8·3	8·7	8·3	7·3	7·0	5·5	4·6	4·9	5·4
30	4·7	3·5	2·9	3·4	4·1	5·9	7·1	8·7	9·2	9·2	8·2	6·6	6·6	6·1	7·1
Mean .	5·3	4·9	3·7	3·1	3·4	4·6	6·2	7·4	7·6	7·1	6·3	5·6	5·2	5·3	5·7
Mean† .	5·3	4·9	3·7	3·0	3·5	4·8	6·5	7·8	8·1	7·5	6.4	5·5	5·2	5·3	5·7

†Five international quiet days.

(Averages for periods of sixty minutes centred at the full hours of Greenwich mean time.)

MARCH. 0° PLUS TABULAR QUANTITIES.

Hours.									Mean.*	Maximum.		Minimum.		Date.
15	16	17	18	19	20	21	22	23		Time.	Mag.	Time.	Mag.	
′	′	′	′	′	′	′	′	′	′	H. M.	′	H. M.	′	
4·9	4·5	4·7	4·9	5·0	5·0	4·9	5·2	5·2	5·0	4 30	4·0	1 6	5·8	1
4·4	5·0	5·1	4·9	4·8	4.7	4·9	5·0	5·3	5·0	3 42	3·2	8 30	6·3	2
4·8	4·7	4·4	4·4	4·8	5·1	5·2	5·3	5·7	4·9	3 50	3·7	8 14	6·5	3
5·0	5·2	5·4	5·3	5·3	5·3	5·3	5·4	5·4	5·2	3 44	4·5	0 30	5·8	4†
5·5	5·4	5.4	5·3	5·2	5·2	5·2	5·2	5·3	5·5	2 30	3·8	7 54	7·8	5
5·3	5·1	5·4	5·3	5·2	5·3	5·3	5·3	5·2	5·3	2 30	4·6	5 30	6·3	6†
5·4	5·5	5·5	5·2	4·7	4·5	4·4	4·6	5·0	5·2	4 10	2·8	7 54	7·7	7
4·2	4·3	4·3	4·6	4·8	5·0	4·9	5·1	5.4	5·2	2 14	4·0	5 34	8·2	8
5·3	5·3	5·3	5·3	5·2	5·2	5·5	5·4	5·8	5·3	4 14	3·5	7 30	6.9	9
5·2	5·1	5·2	5·2	4·9	4·9	5·0	5·5	5·7	5·2	4 6	2·9	8 30	6·9	10†
6·3	4·9	4·5	4·9	5·0	5·2	5·1	5·5	5·9	5·4	3 50	3·6	7 34	6·7	11
2·5	2·8	2·8	2·7	2·5	2·7	2·6	2·7	2·7	**3·1**	4 50	**1·2**	1 18	7·3	12
5·1	5·1	4·7	4·5	4·2	4·0	4·0	4·3	4·6	4·6	2 20	2.2	7 50	7·1	13
3·9	4·5	4·9	4·7	4·4	4·1	3·9	4·3	4·3	4·3	12 2	2·5	7 30	6·4	14
4·2	4·4	4·2	4·2	4·5	3·9	3·7	3·4	4·1	4·7	2 30	**3·1**	6 46	7·5	15
5·2	4·8	3·8	4·3	4·3	4·6	4·8	4·9	5·6	4·3	3 10	2·4	23 6	5·9	16
4·6	4·7	4·5	4·9	4·9	5·1	5·1	5·0	4·9	4·8	4 22	**3·5**	7 0	6·2	17.
4·9	4·7	4·7	4·5	4·5	4·6	4·9	5·0	5·2	5·5	3 30	3·4	8 30	**9·5**	18
5·2	5·2	4·9	4·7	4·6	4·6	5·0	5·5	5·3	5·2	3 30	3·1	8 2	6·9	19
5·3	4·7	5·0	4·8	4·6	4·3	4·1	4·7	4·7	4·7	3 26	2·5	7 6	6·2	20
5·1	4·8	4·8	4·7	4·3	4·1	3·9	4·2	4·4	4·5	3 30	2·3	0 10	5·7	21
4·4	4·5	4·2	4·5	4·6	4·5	4·1	4·2	4·8	4·8	21 50	3·6	7 22	5·9	22
4·9	5·1	5·1	4·7	4·6	4·4	4·6	4·8	4·7	5·0	2 42	3·3	7 34	8·0	23
4·8	4·6	4·9	4·7	4·7	4·7	4·8	4·7	5·0	4·8	2 42	3·3	7 2	6·8	24
4·9	4·9	4·9	4·9	4·8	4·8	4·8	4·9	5·2	5·1	2 50	4·2	7 42	7·7	25
5·1	5·1	5·1.	5·1	4·9	4·9	4·9	4·8	5·2	4·9	3 30	2·5	9 18	6·6	26
5·4	5·5	5·6	5·0	4·7	4·7	4·9	5·2	5·1	4·9	4 26	2·3	7 38	7·0	27
5·5	5·5	5·1	4·9	5·2	5·3	5·3	5·7	5·9	**5·0**	3 18	2·9	7 14	6·7	28
5·8	5·6	5·6	5·8	5·7	5·7	6·0	5·9	6·2	5·6	3 30	2·7	8 30	7·6	29
6·1	5·7	5·6	5·5	5·5	5·5	5·5	5·8	6·1	5·7	3 38	3·6	7 30	7·1	30†
6·2	6.2	6·0	6·0	5·8	5·9	6.0	6·1	6·1	**5·9**	4 42	3·3	8 30	7·8	31†
5·0	4·9	4·9	4·9	4·8	4·8	4·8	4·9	5·2	5·0					Mean.
5·6	5·5	5·5	5·5	5·3	5·4	5·4	5·6	5·7	5·5					Mean†.

APRIL.

5·9	5·6	5·4	5·4	5·4	5·4	5·5	5·5	5·7	5·7	3 6	4·2	7 30	9.0	1
5·8	5·9	5·9	5·7	5·4	5·1	5·2	5·3	5·5	5·3	3 50	3·4	8 2	6·5	2
5·1	5·1	5·1	5·0	4·9	4·9	5·1	5·1	5·3	5·2	3 10	3·9	8 18	7·2	3
6·1	5·9	5·7	5·2	5·4	5·3	5·3	5·5	5·5	5·3	3 30	3·4	7 38	7·9	4
5·3	5·1	5·1	4·7	4·8	4·9	5·0	5·3	5·5	5·3	2 26	3.9	7 42	7·4	5
5·7	5·6	5·6	5·5	5·4	5·4	5·5	5·7	5·8	5·5	3 10	3·3	7 42	7·5	6
5·2	5·5	5·3	5·4	5·3	5·3	5·3	5·4	5·8	5·4	2 58	3·0	7 38	7·9	7
6·1	5·9	5·6	5·4	5·3	5·2	5·2	5·3	5·4	5·5	2 50	2·2	7 50	7·9	8
5·7	5·6	5·6	5.6	5·5	5·4	5·3	5·4	5.4	5·4	4 2	2·1	8 30	8·8	9†
5·8	5·8	5·4	5·4	5·6	5·2	5·3	5·3	5·4	5·5	3 54	2·7	8 38	9.0	10
5·8	5·7	5·5	5·4	5·3	5·5	5·3	5·3	5·6	5·6	3 38	3·4	8 30	8·8	11
6·0	5·9	5·7	5·5	5·5	5·5	5·2	5·3	5·5	5·5	4 2	2·2	8 34	8·2	12
5·8	5·6	5·4	5·1	5·1	5·1	5·1	5·1	5·1	5·3	3 50	1·9	8 2	7·7	13
5·9	5·8	5·6	5·3	5·3	5·5	5·5	5·3	5·5	5·6	3 46	3·5	8 30	8·0	14†
6·3	6·2	5·9	5·2	5·1	4·7	4·3	4·5	4·9	5·7	3 6	3·9	8 30	8·6	15
5·0	5·1	4.4	3·8	4·4	4·4	4·3	4·6	5·0	**4·5**	3 34	**0.4**	7 38	7·5	16
5·0	4·6	4·6	4·6	4·5	4·4	4·8	4·9	5·1	4·9	3 36	2·4	7 10	7·5	17
5·5	5·6	5·5	5·3	5 2	5·2	4.9	4·9	4·9	5·1	3 30	2·7	8 2	6·9	18
5·4	5·1	4·9	5·2	5·2	5·1	5·0	5·0	5·1	4·9	3 34	2·7	7 30	6·6	19
5·5	5·5	5·5	5·5	5·5	5·4	5.3	5·4	5·4	5·3	2 50	2·6	7 2	8·4	20†
5·5	5·5	5·4	5·4	5·2	5·0	5·1	5·3	4·9	5·5	2 46	4·2	6 38	8·3	21
5·6	5·4	5·4	5·4	5·4	5·3	5·4	5·5	5·4	5·4	2 30	2·5	8 30	8·3	22
5·9	5·8	5·5	5·4	5·3	5·4	5·3	5.1	5·3	5·4	3 22	2·8	7 30	8·3	23†
5·8	5·5	5·3	5·3	5·2	5·0	5·0	5·2	5·2	5·9	2 38	2·7	7 30	**9·8**	24†
5.8	5·6	5·5	5·3	5·3	4·9	4·8	4·7	4·8	5·3	3 18	2·8	8 2	8·5	25
5·8	5·6	5·5	5·4	5·3	5·2	4·9	4·7	4·7	5·1	3 30	2·0	7 30	8·5	26
5·9	5·7	5·7	5·6	5·3	5·1	4·8	4·6	4·6	5·3	3 30	2·0	7 34	9·0	27
6·0	6·0	5·9	5·8	5·5	5·3	5·1	5·1	5·0	5·4	3 38	3·0	7 38	8·1	28
5·7	5·4	5·1	4·9	4·9	4·8	4·6	4·7	4·7	5·5	2 38	3.1	7 14	8·4	29
6·8	6·0	5·9	5·7	5·6	5·5	5·3	5·5	6·1	**6·1**	2 30	2·8	8 2	9·4	30
5·7	5·6	5·4	5·3	5·2	5·1	5·1	5·1	5·3	5·4					Mean.
5·8	5·6	5·5	5·4	5·4	5·3	5·3	5·3	5·3	5·5					Mean†.

*See footnote on page 89.
†Five international quiet days.

(Averages for periods of sixty minutes centred at the full hours of Greenwich mean time.)

MAY. 0° PLUS TABULAR QUANTITIES.

Date.	Hours (G. M. T.).														
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
1	5·3	5·0	3·2	2·5	3·1	5·5	7·3	8·9	8·9	7·9	6·9	6·2	5·8	6·5	6·8
2	5·3	4·2	3·7	3·7	4·2	5·5	6·4	7·5	7·3	6·6	5·7	5·3	5·1	5·6	5·8
3	5·2	4·6	4·7	4·8	5·0	6·1	7·0	7·2	6·8	6·2	5·6	5·1	4·4	4·1	5·5
4	5·1	3·8	3·4	3·7	5·0	6·0	6·7	7·1	7·8	7·1	6·3	5·7	5·3	5·5	6·1
5†	5·7	4·7	3·9	4·6	5·9	6·9	8·1	8·4	8·3	7·2	6·1	4·3	3·9	4·6	5·5
6	5·4	4·3	3·1	2·8	4·1	6·1	8·3	8·7	8·3	7·2	6·0	5·2	4·7	4·9	5·9
7	5·3	4·6	3·9	3·6	4·6	5·9	7·0	7·7	7·7	6·7	6·2	5·5	4·9	5·0	5·7
8	4·8	3·2	2·7	3·5	5·8	7·7	8·8	8·3	6·8	5·5	5·1	4·9	4·7	4·9	5·9
9	5·0	3·9	3·5	4·3	5·9	8·0	9·5	10·0	9·4	8·5	6·8	5·6	5·0	5·0	5·5
10†	5·1	4·3	3·3	3·4	4·2	5·7	7·1	8·0	8·0	6·8	6·1	4·9	4·2	4·7	5·9
11	5·5	4·8	3·6	2·8	2·9	5·5	7·8	9·2	9·3	9·0	7·8	6·3	5·1	4·9	5·4
12	5·2	4·5	3·3	2·8	3·9	6·2	8·9	**10·1**	9·7	8·5	7·5	6·3	5·3	5·3	5·9
13	4·7	3·8	3·6	3·7	4·2	5·4	6·1	6·6	6·7	6·9	7·1	6·7	6·7	5·5	5·0
14	4·0	3·2	2·7	3·4	4·4	5·8	7·1	7·9	7·7	6·8	5·7	5·5	5·8	6·0	6·0
15	4·7	4·0	3·2	2·9	3·4	4·7	5·8	6·1	5·9	5·9	5·3	5·2	5·7	5·6	5·0
16	4·9	4·7	3·7	3·4	4·0	5·5	6·2	6·9	7·4	7·1	6·3	5·5	5·1	5·2	5·5
17	4·8	4·0	3·3	3·3	4·0	5·1	5·7	7·1	7·7	7·3	6·4	5·8	5·4	5·3	5·3
18†	4·8	3·9	3·8	4·1	5·1	6·5	7·5	7·8	7·7	7·2	6·1	5·3	5·3	5·4	5·7
19	5·0	4·8	4·7	4·8	5·0	5·7	6·7	7·2	7·2	6·4	5·5	4·9	5·1	5·4	5·7
20	4·5	3·5	3·4	3·5	4·6	5·8	7·1	7·4	7·5	7·4	7·1	6·5	6·2	5·9	5·7
21†	5·0	4·3	3·5	3·7	4·1	5·3	6·6	7·7	7·6	6·6	5·7	5·1	4·7	4·9	5·7
22†	5·2	4·2	2·9	**2·1**	2·7	5·2	6·8	7·1	6·6	6·4	6·4	6·4	6·3	6·1	6·3
23	5·1	3·8	2·9	2·6	3·5	4·7	6·2	7·7	9·0	8·1	6·8	6·0	5·8	5·7	6·3
24	4·5	3·7	3·1	3·2	4·0	6·1	7·6	8·1	7·9	7·3	6·9	6·9	6·5	6·2	6·4
25	5·1	4·6	3·0	2·3	2·5	4·1	6·2	6·9	6·7	5·9	5·9	5·6	5·5	5·5	5·4
26	5·5	5·0	3·9	3·4	4·0	5·3	6·7	8·3	9·0	8·1	6·9	6·7	6·1	5·9	6·3
27	4·9	4·2	3·5	3·2	3·7	5·2	6·7	8·4	9·0	8·8	7·8	7·3	6·2	5·7	6·0
28	5·5	4·4	3·0	2·7	3·0	5·1	6·9	8·5	9·0	8·7	7·6	6·9	5·8	6·3	6·6
29	5·5	4·1	3·2	3·2	4·2	6·1	7·5	8·2	8·4	7·5	6·6	5·9	5·5	5·5	5·7
30	5·5	4·7	3·7	3·1	3·8	5·7	6·9	7·7	8·0	7·6	6·7	5·7	5·2	5·4	5·7
31	5·3	4·3	3·5	3·8	4·5	5·3	6·5	7·8	9·1	8·7	7·4	6·0	5·0	4·7	5·6
Mean . .	5·1	4·2	3·5	**3·4**	4·2	5·7	7·1	**7·9**	7·9	7·3	6·5	5·8	5·4	5·4	5·8
Mean† . .	5·2	4·3	**3·5**	3·6	4·4	**5·9**	7·2	**7·8**	7·7	6·9	6·1	5·2	4·9	5·2	5·8

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1	5·5	4·7	3·5	3·0	3·7	6·0	7·6	8·7	9·1	8·7	8·1	7·1	6·4	6·0	6·2
2	5·7	4·3	3·3	3·2	4·2	5·8	7·0	8·2	8·3	8·1	7·9	7·1	6·0	5·3	5·7
3	5·4	4·2	3·1	2·6	2·9	4·2	5·5	6·6	7·1	7·0	6·9	6·1	5·8	5·6	6·1
4†	5·7	4·6	4·2	4·3	5·0	7·0	8·7	9·0	8·5	7·5	6·6	5·9	5·4	5·5	6·0
5†	5·2	4·1	4·0	4·7	6·0	7·6	8·2	8·7	8·3	7·1	5·8	5·3	5·2	5·7	6·2
6	5·3	4·6	4·2	4·3	5·2	6·6	8·1	8·7	9·1	7·7	6·9	5·8	5·3	5·9	6·7
7	5·2	4·1	3·4	3·9	5·2	6·0	7·2	8·4	8·1	6·9	6·1	6·0	5·9	6·0	6·3
8	5·1	4·0	4·0	4·7	5·8	7·5	8·4	9·4	**10·0**	9·3	7·8	6·7	6·1	5·9	6·2
9	5·2	4·7	3·7	3·9	5·1	6·5	7·9	9·1	8·7	8·1	7·6	7·3	6·4	6·4	6·7
10	4·7	3·5	2·9	3·3	4·0	5·6	6·1	7·1	7·9	7·7	7·0	6·9	5·9	5·9	6·3
11	4·9	4·5	3·7	3·4	4·0	4·6	5·8	7·1	7·6	7·7	7·2	6·5	5·6	5·5	5·9
12	4·9	4·2	3·3	3·6	4·6	5·9	7·3	8·1	8·5	8·1	7·5	6·6	6·0	5·4	5·8
13	5·1	4·5	4·2	4·6	5·8	6·0	6·4	7·0	7·5	7·5	7·0	6·3	5·9	5·7	6·1
14	5·5	5·3	4·7	4·4	4·5	5·5	6·8	8·0	8·0	7·2	6·6	5·9	5·3	5·5	5·9
15	4·9	4·0	3·7	3·9	5·3	6·4	7·4	8·6	8·9	8·7	7·9	6·7	6·6	6·5	6·4
16	5·0	4·2	3·4	3·3	4·5	5·6	6·8	7·7	7·3	6·8	6·4	6·1	6·0	5·9	6·0
17	5·0	4·1	3·9	3·5	4·1	5·2	6·5	7·6	8·3	8·7	8·4	6·9	6·1	6·1	6·3
18†	5·2	4·1	3·5	2·9	3·9	5·0	6·9	8·8	8·3	7·8	7·6	6·6	5·7	5·4	5·7
19	5·4	4·7	3·5	3·7	4·7	6·3	7·4	8·1	8·0	7·6	6·7	6·4	6·1	6·2	6·7
20	4·9	4·0	3·5	3·2	4·1	5·7	6·6	6·9	6·9	7·1	6·8	6·3	6·1	5·9	6·4
21	5·0	3·5	2·1	**2·0**	3·0	5·2	6·8	7·9	8·1	6·9	6·3	5·7	5·4	5·9	6·6
22	4·6	3·8	3·3	3·2	5·0	6·6	7·3	7·8	8·0	7·4	5·6	5·4	5·3	5·7	6·6
23	4·9	4·0	2·7	2·3	3·8	5·4	6·7	7·7	7·8	8·3	8·0	7·1	6·1	5·6	5·7
24	5·4	4·6	3·1	2·5	2·9	4·6	5·9	7·0	7·4	7·7	6·7	6·2	5·7	5·6	5·4
25	5·1	3·8	3·1	3·4	5·3	6·3	7·5	8·2	8·4	7·7	6·9	5·7	4·9	4·8	5·5
26†	5·5	4·5	3·1	2·6	2·6	3·6	5·4	7·8	8·4	8·8	8·0	7·3	6·4	5·5	5·3
27	5·4	4·3	2·8	2·2	3·3	5·3	7·1	8·2	9·3	9·5	8·1	6·6	5·8	5·2	5·5
28	6·2	5·2	4·1	3·4	3·4	4·2	5·8	6·4	7·2	7·7	7·3	5·9	4·8	4·0	4·0
29	5·0	3·7	2·9	3·0	4·6	5·6	6·5	7·9	8·8	8·1	6·9	5·9	5·5	5·4	5·7
30	5·3	4·2	2·9	3·0	3·9	4·5	5·7	5·9	6·7	6·6	6·6	5·5	4·6	4·4	5·0
Mean .	5·2	4·3	3·5	**3·4**	4·3	5·7	6·9	7·9	**8·1**	7·8	7·1	6·3	5·7	5·6	6·0
Mean† .	5·4	4·5	3·9	**3·8**	4·4	5·7	7·2	**8·5**	8·3	7·7	6·9	6·2	5·6	5·5	5·8

†Five international quiet days.

(Averages for periods of sixty minutes centred at the full hours of Greenwich mean time.)

MAY. 0° PLUS TABULAR QUANTITIES.

Hours (G. M. T.).									Mean.*	Maximum.		Minimum.		Date.
15	16	17	18	19	20	21	22	23		Time.	Mag.	Time.	Mag.	
′	′	′	′	′	′	′	′	′	′	H. M.	′	H. M.	′	
6·3	6·1	5·8	5·6	5·6	5·4	5·4	5·5	5·4	5·9	3 6	2·2	7 30	9·0	1
6·0	5·8	5·9	5·9	5·8	5·6	5·5	5·3	5·3	5·5	2 2	3·4	7 38	7·5	2
5·7	5·8	6·0	5·7	5·6	5·6	5·5	5·5	5·3	5·5	12 30	3·9	6 42	7·2	3
6·2	6·3	6·0	6·0	5·8	5·8	5·7	5·6	5·8	5·7	1 38	3·4	8 30	7·9	4
5·7	5·9	5.9	5·7	5·7	5·6	5·6	5·5	5·7	5·8	11 30	3·8	7 2	8·5	5†
5·7	5·9	5·6	5·7	5·7	5·7	5·4	5·5	5·4	5·7	2 42	2·7	6 46	8·8	6
5·7	5·6	5·3	5·3	5·2	5·1	5·3	5·2	5·2	5·5	3 14	3·5	7 6	8·3	7
5·9	6·0	5·8	5·5	5·6	5·4	5·4	5·4	5·3	5·5	2 2	2·7	6 6	9·0	8
5·6	5·6	5·8	5·7	5·5	5·5	5·2	5·5	5·3	**6·1**	1 54	3·4	6 50	10·4	9
6·1	6·1	5·9	5·8	5·7	5·6	5·6	5·6	5·6	5·6	2 30	3·2	7 30	8·1	10†
5·7	5·5	5·6	5·8	5·5	5·5	5·4	5·5	5·4	5·8	3 30	2·7	7 30	9·6	11
6·0	5·9	5.7	5·2	5·2	5·2	5·0	4·9	4·9	5·9	2 46	2·8	7 34	**10.4**	12
4·5	5·0	4·7	4·9	5·0	4·6	4·6	4·5	4·4	5·2	2 30	3·4	8 22	7·9	13
6·5	6·1	5·9	5·5	5·0	4·8	5·0	4·8	4·6	5·4	1 30	2·7	7 30	8·5	14
5·0	5·6	5·3	5·1	5·0	5·1	5·1	4·9	4·8	**5·0**	3 18	2·7	7 14	6·2	15
5·6	5·5	5·0	5·1	5·0	4·9	4·9	4·7	4·9	5·3	3 30	3·3	8 30	7·8	16
5·3	5·3	5·3	5·0	5·2	5·2	5·2	5·1	5·1	5·3	1 46	3·2	7 30	8·0	17
5·5	5·4	5·2	5·2	5·2	5·1	5·1	5·2	5·0	5·6	2 22	3·7	6 38	8·0	18†
5·7	5·4	5·3	4·9	4·8	4·9	4·5	4·3	4·6	5·3	1 50	4·7	7 38	7·8	19
5·8	5·8	5·8	5·8	5·7	5·5	5·4	5·4	5·3	5·7	2 30	3·3	7 58	7·8	20
5·9	5·9	5·9	5·9	5·8	5·7	5·7	5·4	5·4	5·5	2 22	3·5	7 2	8·0	21†
6·5	6·2	5·9	5·7	5·7	5·6	5·4	5·4	5·3	5·5	2 50	**2·0**	6 42	7·7	22†
6·6	6·0	5·4	5·3	5·2	5·1	5·1	5·0	4·9	5·5	2 46	2·6	7 54	9·4	23
6·3	6·1	5·7	5·5	5·2	5·0	4·9	5·0	5·3	5·7	2 42	3·0	6 58	8·5	24
5·5	5·2	5·2	5·1	5·0	4·9	4·8	5·2	5·3	5·1	**3 30**	2·3	7 38	7·0	25
6·2	5·9	5·8	5·5	5·2	5·2	5·2	5·4	5·5	5·9	3 2	3·3	7 50	9·5	26
6·1	6·0	5·9	5·8	5·6	5·4	5·3	5·5	5·5	5·9	3 6	3·1	7 34	9·3	27
6·8	6·5	6·2	5·9	5·6	5·6	5·7	5·8	5·8	6·0	1 54	2·5	8 34	9·6	28
5·8	5·9	5·7	5·9	6·0	5·8	5·5	5·5	5·5	5·8	2 18	3·1	7 38	8·7	29
5·5	5·5	6·1	6.1	5·9	5·9	6·1	6·2	5·6	5·8	2 6	3·0	8 10	8·3	30
6·0	6·0	6·2	6·1	5·9	5·9	5·9	5·9	5·7	5·9	2 30	3·5	8 6	9.3	31
5·9	5·8	5·7	5·5	5·5	5·4	5·3	5·3	5·3	5·6					Mean
5·9	5·9	5·8	5·7	5·6	5·5	5·5	5·5	5·4	5·6					Mean†

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6·3	6·5	6·4	6·1	6·0	6·3	6·0	6·2	5·9	**6·3**	2 38	2·9	8 6	9·2	1
6·0	5·7	6·7	5·8	5·9	5.9	5·8	5·7	5·6	6·0	2 40	3·1	7 30	8·6	2
6·3	6·3	6·3	6·3	6·1	6·2	6·2	6·0	6·0	5·6	3 10	2·5	8 2	7·4	3
6·1	5·8	5·7	5·7	5·7	5·7	5·7	5·7	5·6	6·1	2 14	4·1	4 30	9·3	4†
6·3	6·5	6·5	6·1	6·1	6·0	6·0	5·9	5·8	6·1	1 34	3·9	7 14	9·1	5†
6·7	6·6	6·5	6·3	6·0	5·7	5·7	5·6	5·5	6·2	2 30	4·1	7 30	9·1	6
6·6	6·5	6·1	6·0	5·9	5·6	5·7	5·6	5·6	5·9	2 34	3·3	7 6	8·5	7
6·3	6 1	5·5	5·6	5·7	5·6	5·1	5·3	5·4	6·3	1 26	3·9	8 10	**10·1**	8
7·0	6·6	6·2	6·1	5·8	5·3	5.4	5·3	5·2	6·2	2 50	3·6	7 6	9·1	9
6·6	6·3	6·3	5·9	5·3	5·4	5·5	5·3	5·3	5·7	1 58	2·7	8 30	8·1	10
6·2	5·9	5·7	5·9	5·6	5·3	5.1	5·1	5·1	5·6	2 34	3·3	9 38	7·8	11
5·9	5·5	5·5	5·5	5·7	5·5	5·3	5·2	5·1	5·8	2 30	3·2	7 30	8·5	12
6·1	6·0	5·9	5·8	5·7	5·5	5·4	5·6	5·7	5·9	1 42	4·1	8 38	7·9	13
6·1	6·0	5·9	5·7	5·5	5·4	5·3	5·4	5·4	5·8	3 30	4·3	7 58	8·1	14†
6·5	6·1	5·6	5·5	5·4	5·3	5·3	5·1	5·2	6·1	1 42	3·6	8 26	9·1	15
5·8	5·9	5·9	5·7	5·6	5·5	5·5	5·2	5·4	5·7	2 38	3·2	7 10	7·9	16
6·5	6·4	5·9	5·7	5·7	5·6	5·5	5·3	5·4	6·0	2 54	3·4	8 50	9·2	17
5·9	5·9	5·9	5·9	5·9	5·7	5·6	5·6	5·5	5·8	2 50	2·8	7 22	9·1	18†
6·8	6·7	6·4	6·1	5·9	5·9	5·7	5·6	5·5	6·1	2 34	3·4	7 30	8·5	19
6·4	6·3	6·0	5·7	5·5	5·3	5·4	5·4	5·3	5·7	2 42	3·0	9 2	7·4	20
6·6	6·3	6·1	5·6	5·4	5·3	5·2	5·0	4·9	5·5	2 30	**2·0**	7 30	8·9	21
6·8	6·6	6·4	5·9	5·6	5·3	5·2	5·1	5·0	5·7	2 38	3·0	7 50	8·5	22
5·8	5·7	6·0	5·8	5·9	5·4	5·2	5·3	5·7	5·7	3 2	2·1	9 10	8·7	23
5·4	5·6	5·6	5·7	5·5	5·4	5·3	5·4	5·3	5·4	3 22	2·4	9 18	7·9	24
6·2	6·2	6·1	6·0	5·9	5·8	5·7	5·6	5·7	5·8	1 50	2·9	8 6	8·6	25
5·7	5·8	5·6	5·8	5·8	5·7	5·7	5·7	5.7	5·7	3 30	2·5	9 2	9·0	26†
5·8	6·0	6·0	6·1	6·0	6·3	6·2	6·2	6·4	6·0	3 6	2·1	8 42	10·0	27
4·2	4·4	4·6	5·0	5·4	5·3	5·7	5·8	6·6	5·3	3 50	3·3	9 18	7·9	28
6·0	6·0	5·9	6·0	5·7	5·6	5·6	5·6	5·6	5·7	2 2	2·8	7 54	9·1	29
5·9	6·1	6·1	6·1	5·4	4·9	4·8	4.7	4·9	**5·1**	2 30	2·6	8 18	7·4	30
6·1	6·1	6·0	5·9	5·7	5·6	5·5	5·5	5·5	5·8					Mean
6·0	6·0	5·9	5·9	5·8	5·7	5·7	5·7	5·6	5·9					Mean†

*See footnote on page 89.
†Five international quiet days.

(Averages for periods of sixty minutes centred at the full hours of Greenwich mean time.)

JULY. 0° PLUS TABULAR QUANTITIES.

Date.	Hours (G. M. T.).														
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
1	4·2	2·9	2·7	2·9	4·0	5·7	6·4	6·5	6·6	6·6	6·5	6·3	6·5	6·1	6·3
2	4·9	4·1	3·2	3·2	4·0	4·9	6·8	8·6	8·8	8·4	8·1	7·0	5·9	5·8	6·2
3	5·0	4·4	4·4	5·3	6·7	8·4	9·5	9·9	9·4	8·5	8·0	7·0	6·3	6·2	6·7
4	5·2	4·4	3·7	3·9	4·6	5·6	7·5	9·0	8·9	6·9	5·4	5·1	4·8	5·1	6·0
5	5·1	3·9	3·3	3·6	4·6	6·9	8·4	9·4	8·9	8·3	7·8	7·2	7·2	7·7	8·7
6	4·2	2·5	2·2	2·8	4·2	5·5	6·5	8·5	7·9	6·8	6·5	6·9	6·6	6·6	6·9
7	4·6	3·8	2·9	3·2	4·8	6·2	7·5	8·1	8·3	8·1	8·3	8·2	7·3	6·3	6·1
8	5·3	4·4	3·7	3·1	3·0	4·4	6·9	8·9	9·9	9·7	8·2	7·4	6·2	5·7	6·0
9†	5·5	4·6	3·3	1·4	3·0	4·6	7·5	9·3	10·1	9·7	9·5	8·9	7·4	6·6	6·3
10	5·8	4·9	3·8	3·7	3·8	4·1	5·6	7·1	8·1	8·6	8·4	7·6	6·7	6·0	7·5
11	3·9	2·9	2·3	2·3	3·7	5·6	7·3	8·0	8·7	9·5	9·0	7·5	6·6	6·1	6·5
12	5·1	4·5	2·9	2·8	3·6	5·3	6·0	6·3	6·9	6·7	6·3	6·1	6·1	5·7	5·7
13†	5·2	4·1	2·9	2·3	3·5	5·8	7·0	8·4	8·9	8·6	7·7	6·9	5·8	5·2	5·6
14	5·3	4·3	3·0	2·9	3·2	4·3	5·5	6·7	7·5	7·7	7·1	6·6	6·7	6·6	6·7
15	4·6	3·8	3·0	2·7	3·4	4·2	5·3	6·5	7·1	7·4	6·5	6·6	6·4	6·0	6·1
16	5·8	4·5	3·1	2·6	3·8	5·5	7·1	7·9	8·3	8·5	7·4	7·0	6·0	4·3	4·3
17	4·3	2·9	2·2	2·5	4·1	5·5	7·1	7·5	7·6	7·5	7·2	6·8	6·6	4·8	5·7
18	5·2	4·3	3·1	2·9	2·9	3·6	4·7	5·6	5·6	5·7	5·8	5·8	5·5	5·5	5·9
19†	5·1	4·3	3·8	4·1	4·5	5·0	6·1	7·1	7·6	8·2	7·1	6·1	5·3	5·4	5·9
20	5·5	4·5	3·9	3·7	3·8	4·8	6·3	6·8	6·6	6·1	5·5	5·1	5·1	5·3	5·7
21	5·1	4·3	4·0	4·8	7·1	9·3	10·3	9·9	9·6	8·8	7·9	7·0	6·0	5·5	6·4
22	5·2	4·4	3·7	4·1	5·4	6·3	7·7	8·3	8·3	8·0	7·0	6·5	5·9	5·6	5·7
23	5·6	4·4	3·1	3·1	4·1	5·8	7·3	8·1	8·3	7·9	6·8	5·4	5·1	5·5	5·8
24	5·7	4·7	4·0	4·1	4·4	5·6	6·9	8·2	8·5	7·5	6·3	5·3	4·9	4·9	5·0
25	5·2	4·4	3·7	4·0	5·1	6·6	7·8	7·5	7·1	7·0	6·9	6·3	5·5	5·3	5·2
26	5·4	4·3	3·1	3·5	5·2	6·3	7·2	8·4	8·5	7·9	6·6	5·5	4·9	5·1	5·6
27	5·5	4·7	3·7	3·7	3·7	4·4	5·1	6·2	6·2	6·6	7·1	5·9	4·7	4·5	5·2
28†	5·3	3·7	3·1	3·8	5·9	6·9	7·8	8·5	8·4	8.1	7·8	5·9	5·3	5·4	6·1
29†	5·3	4·4	3·2	3·6	5·5	7·5	8·3	7·8	8·7	9·4	7·9	6·7	5·6	5·6	6·1
30	5·5	4·9	4·1	4·5	5·3	6·1	6·9	8·2	8·5	7·3	5·9	5·7	5·5	5·6	6·2
31	4·3	3·1	2·3	3·7	5·7	6·8	7·9	8·8	9·1	7·9	5·8	5·5	5·1	5·6	5·9
Mean .	5·1	4·1	3·3	3·4	4·4	5·7	7·0	7·9	8·2	7·9	7·1	6·5	5·9	5·7	6·1
Mean† .	5·3	4·2	3·3	3·1	4·5	6·0	7·4	8·2	8·7	8·8	7·8	6·9	5·9	5·6	6·0

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1	4·3	3·8	3·2	3·7	4·6	6·3	7·6	8·4	8·3	7·7	6·7	5·8	6·5	6·5	4·8
2	3·3	2·7	0·9	1·0	3·3	5·2	6·3	6·9	7·1	6·7	6·2	5·7	5·3	5·5	5·9
3	4·5	3·2	1·9	2·3	4·5	5·7	6·8	7·5	6·7	6·4	5·9	4·9	4·5	5·1	5·9
4	4·4	3·0	2·3	3·1	4·7	5·9	6·6	6·4	6·3	6·5	6·6	6·2	6·1	6·1	6·3
5	4·4	3·2	1·4	2·3	4·0	6·0	7·5	8·4	8·4	7·6	7·0	6·1	5·7	5·5	5·5
6	5·0	3·8	3·4	3·7	5·3	6·7	7·8	8·4	8·1	7·7	7·0	6·4	5·9	5·7	6·1
7†	4·9	3·6	2·6	3·5	6·0	7·6	8·9	8·9	8·7	8·5	7·6	6·7	6·2	6·1	6·0
8†	5·2	4·4	3·2	2·7	3·5	5·1	6·8	7·5	7·7	8·0	8·3	7·8	6·7	5·7	5·7
9†	5·1	4·1	3·2	3·1	3·8	4·8	6·7	7·7	7·7	7·2	5·6	4·8	4·4	4·7	5·6
10	5·2	4·3	3·8	4·0	5·1	6·5	7·9	8·2	8·3	8·4	8·1	7·5	6·9	6·5	6·7
11	5·5	4·2	3·1	3·1	4·0	5·8	8·0	9·3	9·3	8·7	7·4	6·8	7·0	7·1	7·4
12	5·3	4·1	2·8	2·8	4·4	5·8	6·7	7·0	7·3	7·3	7·2	6·6	5·9	5·7	6·1
13	5·5	4·5	3·2	2·6	3·1	5·6	7·4	7·7	7·1	6·8	5·8	5·4	5·3	5·5	5·9
14	5·4	4·7	3·9	3·2	3·9	5·5	6·8	8·2	8·3	8·2	7·9	7·1	6·8	6·4	6·4
15	5·2	3·8	2·5	2·5	3·9	5·4	6·8	8·3	8·2	8·4	7·6	6·1	5·7	5·9	5·9
16	5·9	5·6	4·3	3·6	4·1	5·0	5·8	5·8	6·1	6·8	6·5	6·4	5·4	5·1	5·7
17	5·9	4·9	4·0	4·4	4·7	5·3	6·5	7·1	7·0	6·7	5·8	4·8	4·6	4·9	5·6
18	5·8	4·9	4·7	5·4	6·4	6·7	7·5	7·9	8·5	8·1	6·7	5·7	5·8	5·6	5·6
19	5·5	4·5	3·3	2·8	3·7	5·2	7·2	8·2	8·6	8·4	7·2	5·8	5·1	4·8	5·1
20	5·6	4·3	2·8	2·7	3·9	6·3	8·2	9·2	9·4	8·6	7·2	5·9	5·3	5·6	5·7
21	5·8	4·4	2·6	1·5	2·2	5·9	8·4	9·1	8·4	8·0	6·5	4·9	4·0	4·5	5·0
22	5·4	4·3	3·0	3·0	4·9	7·2	8·3	8·6	8·7	7·1	5·8	4·9	4·7	4·8	5·6
23	5·6	4·4	2·9	2·8	4·5	7·0	8·9	9·4	9·4	8·4	6·9	5·3	4·8	5·1	5·7
24	5·7	5·0	4·2	4·1	5·8	7·9	9·2	9·1	8·7	8·3	7·0	6·1	5·4	5·2	5·8
25†	5·8	4·6	3·1	2·9	4·2	6·3	7·9	8·9	9·4	8·9	7·7	6·6	5·9	5·5	5·8
26	5·3	4·4	3·6	3·8	5·2	7·1	8·9	9·6	9·8	9·3	7·7	6·2	5·4	5·6	6·3
27	5·5	4·9	3·6	3·3	4·3	5·6	7·0	8·1	8·5	8·1	7·0	5·9	5·4	5·0	5·4
28†	5·3	4·6	3·8	3·8	5·0	6·5	7·8	9·3	9·7	9·3	7·8	6·7	6·0	5·3	6·0
29	5·5	4·6	3·4	2·8	3·6	5·9	7·9	8·2	8·5	7·9	6·9	5·9	5·2	5·4	5·9
30	5·3	4·3	3·2	3·4	5·2	7·4	8·7	9·5	8·9	7·9	6·6	5·8	5·4	5·6	6·3
31	5·7	4·9	3·6	3·5	4·8	6·9	8·5	9·2	8·9	8·0	7·0	6·2	5·8	6·1	6·3
Mean .	5·3	4·3	3·1	3·1	4·4	6·1	7·6	8·3	8·3	7·9	6·9	6·0	5·6	5·5	5·9
Mean† .	5·3	4·3	3·2	3·2	4·5	6·1	7·7	8·5	8·6	8·4	7.4	6·5	5·9	5·5	5·8

† Five international quiet days.

(Averages for periods of sixty minutes centred at the full hours of Greenwich mean time.)

JULY. 0° PLUS TABULAR QUANTITIES.

Hours (G. M. T.).									Mean.*	Maximum.		Minimum.		Date.
15	16	17	18	19	20	21	22	23		Time.	Mag.	Time.	Mag.	
′	′	′	′	′	′	′	′	′	′	H. M.	′	H. M.	′	
6·3	6·2	6·1	6·1	6·0	5·7	5·7	5·4	5·2	5·5	2 34	2·4	9 10	7·4	1
6·6	6·6	6·2	6·0	5·8	5·7	5·5	5·5	5·3	6·0	1 18	2·9	7 46	9·0	2
6·8	6·9	6·7	6·3	6·0	5·7	5·8	5·5	5·3	**6·7**	1 30	4·1	7 2	10·1	3
6·1	6·0	5·9	5·9	5·8	5·5	5·5	5·5	5·5	5·7	2 2	3·7	7 34	9·0	4
8·8	7·0	6·1	5·9	5·6	5·4	4·9	4·7	4·5	6·4	2 30	3·1	7 30	9·5	5
6.9	6·8	6·3	6·0	5·6	5·4	5·1	4·7	4·9	5·7	1 22	2·1	7 30	8·9	6
6·5	6·2	6·2	6·0	5·8	5·7	5·5	5·3	5·6	6·1	1 54	2·6	10 6	8·7	7
6·2	6·2	6·1	6·0	5·7	5·7	5·9	5·9	5·9	6·1	3 46	2·8	8 30	10·0	8
6·4	6·4	6·3	6·3	6·1	6·1	5·9	6·1	6·1	6·4	3 2	**1·3**	8 10	10·1	9†
7·1	6·8	6·1	6·0	4·9	4·9	4·9	4·2	4·2	5·8	2 50	3·7	9 48	8·9	10
6·7	6·5	6·2	5·9	5·7	5·4	5·4	5·4	5·4	6·0	2 6	2·2	9 14	9·7	11
5·9	5·8	5·6	5·5	5·5	5·4	5·3	5·3	5·3	5·4	2 30	2·7	8 30	7·4	12
6·0	5·9	5·8	5·7	5·6	5·6	5·5	5·5	5·5	5·8	3 22	2·2	8 34	9·0	13†
6·6	6·3	6·5	6·1	5·4	5·4	5·0	4·5	4·6	5·6	2 46	2·8	8 42	8·3	14
6·5	6·7	6·2	5·5	5·5	5·0	5·1	5·2	5·8	5·5	3 2	2·5	8 30	7·7	15
3·9	4·5	4·8	5·0	5·0	5·1	5·1	5·1	5·0	5·4	2 46	2·5	9 14	9·0	16
6·3	6·6	6·3	6·1	5·6	5·5	5·5	5·4	5·4	5·7	2 22	2·2	7 34	8·0	17
6·3	6·3	6·0	5·7	5·4	5·3	5·2	5·3	5·2	**5·1**	2 50	2·8	14 46	**6·3**	18
6·2	6·2	6·0	6·0	6·0	5·7	5·6	5·6	5·6	5·8	1 38	3·7	9 2	**8·4**	19†
5·6	6·5	6·6	6·5	6·2	5·9	5·7	5·2	5·2	5·5	3 14	3·6	7 30	7·3	20
6·4	6·4	6·3	5·7	5·7	5·7	5·6	5·8	5·6	6·6	1 30	3·8	6 18	**10·9**	21
6·0	6·1	6·0	5·8	5·8	5·8	5·8	5·8	5·8	6·0	1 58	3·6	7 30	8·4	22
6·1	6·1	6·0	6·0	6·1	6·1	5·9	6·1	6·0	5·9	2 46	3·0	8 6	8·6	23
5·5	5·9	5·8	5·3	5·7	5·7	5·7	5·4	5·5	5·7	2 6	3·9	7 46	8·8	24
5·7	6·1	6·1	5.8	5·6	5·4	5·3	5·6	5·6	5·8	2 22	3·5	6 10	7·9	25
5·9	6·1	5·6	5·6	5·5	5·5	5·5	5·4	5·7	5·8	2 10	3·0	8 34	8·7	26
5·9	6·2	6·2	6·2	6·1	6·0	5·9	5·9	5·7	5·5	3 50	3·5	9 2	7·2	27
6·3	6·2	6·1	6·1	5·9	5·8	5·8	5·8	5·7	6·0	2 2	3·0	7 30	8·6	28†
6·7	6·7	6·3	6·2	6·1	5·9	5·8	5·7	5·7	6·3	2 30	3·1	8 50	9·7	29†
6·4	6·4	6·2	6·1	6·0	5·6	5·1	4·8	4·8	5·9	2 10	4·0	7 30	8·8	30
5·9	6·2	6·1	6.1	5·8	5·8	5·7	5·4	5·2	5·8	1 58	2·2	7 54	9·4	31
6·3	6·3	6·1	5·9	5·7	5·6	5·5	5·4	5·4	5·9					Mean.
6·3	6·3	6·1	6·1	5·9	5·8	5·7	5·7	5·7	6·1					Mean.†

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5·4	5·4	5·2	5·1	4·6	4·4	3·7	3·2	3·6	5·3	1 42	2·3	7 54	8·7	1
6·2	6·1	6·0	5·8	5·6	5·5	5·2	5·2	4·9	**5·1**	2 30	**0·6**	8 2	7·5	2
6·2	6·1	6·1	5·8	5·7	5·5	5·3	5·2	4·9	5·3	2 30	1·9	7 6	7·7	3
6·4	6·3	6·3	5·8	5·6	5·4	4·9	4·6	4·4	5·4	1 38	2·2	5 46	7·1	4
6·4	6·3	6·1	5·9	5·7	5·5	5·3	5·0	4·9	5·6	2 6	1·3	7 30	8·6	5
6·4	6·2	6·1	5·9	5·9	5·7	5·6	5·4	5·2	6·0	2 2	3·3	7 10	8·6	6
6·0	6·0	5·9	5·9	5·6	5·4	5·4	5·4	5·3	6·1	2 6	2·5	6 30	9·1	7†
6·0	6·1	6·1	5·8	5·7	5·6	5·6	5·6	5·5	5 8	3 2	2·7	10 6	8·6	8†
6·0	6·0	5·9	5·9	5·8	5·7	5·5	5·5	5·6	5·4	2 14	3.0	7 30	8·0	9†
6·8	6·8	6·7	6·3	6·0	5·9	5·8	5·7	5·7	**6·4**	2 30	3·7	9 2	8·7	10
7·3	7·2	6·7	6·1	5·7	5·3	5·2	5·1	5·2	6·3	2 30	3·0	**7** 10	9·7	11
6·2	6·3	6·3	6·2	5·9	5·7	5·8	5·7	5·7	5·8	2 34	2·6	8 30	7·6	12
6·1	6·1	6·1	6·1	6·0	5·9	5·8	5·8	5·6	5·6	3 6	2·5	6 30	8·1	13
6·2	6·1	5·4	4·5	4·7	4·8	5·0	5·3	5·6	5·8	3 30	3·1	7 30	8·6	14
6·1	5·8	6·0	5·8	5·7	5·7	5·8	6·1	6·0	5·8	2 46	2·0	**9** 22	8·7	15
5·6	5·6	5·9	6·1	6·0	6·1	5·8	5·8	5·8	5·6	**3** 2	3·5	9 2	7·1	16
6·1	5·9	6·2	6·2	6·1	6·0	5·7	5·9	5·8	5·7	2 30	3·9	6 50	7·3	17
5·7	6·1	6·1	6·1	6·1	5·9	6·1	5·7	6·0	6·2	1 54	3·5	8 42	8·9	18
4·9	5·2	5·7	5·9	5·7	5·9	5·8	5·9	5·7	5·7	2 50	2·8	8 30	8·7	19
5·9	6·1	6·2	6·1	6·1	6·1	6·4	6·1	5·9	6·1	2 30	2·6	7 30	9·7	20
5·8	5·8	6·1	6·2	6·3	6·1	6·0	5·9	5·8	5·6	3 30	1·4	6 54	9·3	21
6·0	6·2	6·2	6·1	6·3	6·3	6·2	6·2	6·0	5·9	2 34	2·7	8 14	9·6	22
5·9	5·9	6·0	5·7	5·8	6·0	6·0	5·9	5·9	6·0	2 38	2·7	7 50	9·6	23
5·9	6·0	6·0	6·2	6·1	6·8	6·2	6·3	6·0	6·4	2 26	4·0	6 30	9·4	24
5·6	5·8	5·8	5·8	5·8	5·8	5·6	5·6	5·5	6·0	2 46	2·7	8 18	9·6	25†
6·5	6·9	6·8	6·5	6·1	5·9	5·9	5·7	5·7	6·4	2 30	3·5	7 58	9·9	26
5·6	5·7	5·7	5·6	5·8	5·9	5·9	5·8	5·8	5·8	2 38	3·2	8 30	9·0	27
6·2	6·2	6·2	6·0	6·0	5·9	5·8	5·8	5·7	6.3	2 24	3·7	7 54	9·9	28†
6·2	6·2	6·0	6·0	5·7	5·5	5·5	5·5	5·5	5·8	3 6	2·7	7 30	8·6	29
6·3	6·4	6·3	6·2	6·1	5·9	6·0	5·9	5·7	6·2	2 30	2·9	7 6	**10·0**	30
6·6	6·5	6·2	5·8	5·6	5·6	5·4	5·1	5·2	6·1	2 14	3·4	7 30	9·2	31
6·1	6·1	6·1	5·9	5·8	5·7	5·6	5·5	5·5	5·9					Mean.
5·9	6·0	6·0	5·9	5·8	5·7	5·6	5·6	5·5	5·9					Mean.†

*See footnote on page 89.
†Five international quiet days.

(Averages for periods of sixty minutes centred at the full hours of Greenwich mean time.)

SEPTEMBER. 0° PLUS TABULAR QUANTITIES.

Date.	Hours.														
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
1	5·1	4·5	3·3	3·6	5·7	7·1	8·2	8·9	8·5	7·9	7·2	6·1	6·0	6·1	6·2
2	5·5	4·5	3·0	3·0	3·9	6·0	7·7	9·0	9·6	8·5	6·9	5·9	5·3	5·6	6·0
3†	5·6	4·4	3·5	3·6	4·7	6·9	9·1	9·4	9·5	9·9	8·1	6·4	5·9	6·2	6·3
4†	6·1	5·0	3·7	3·8	5·3	7·5	9·7	10·4	10·5	9·9	8·4	6·8	5·4	5·6	6·3
5†	5·4	4·3	3·0	2·8	4·8	7·4	9·6	11·1	11·0	9·7	8·2	6·1	5·0	5·5	6·3
6	5·9	4·7	3·5	3·4	5·0	6·5	7·9	9·2	9·9	8·9	7·3	6·3	5·7	5·7	6·2
7	5·9	5·3	3·7	2·3	5·0	6·1	6·9	8·4	9·1	7·8	6·9	6·5	6·5	6·5	6·5
8	5·2	4·2	3·1	3·0	4·6	6·7	8·6	10·0	10·0	8·9	7·4	6·0	5·6	6·0	6·4
9	5·8	5·3	3·9	3·4	4·0	5·9	7·7	9·4	9·5	8·3	7·7	6·8	6·6	6·6	6·8
10	5·6	5·1	4·3	4·2	4·5	6·1	7·4	8·7	8·7	8·0	6·6	5·2	4·7	5·4	6·3
11	5·7	5·5	4·3	4·5	4·9	6·4	7·5	8·6	9·0	8·8	7·6	6·7	5·5	5·4	5·3
12	5·8	5·5	4·3	3·5	3·6	4·9	6·1	7·5	8·6	8·5	7·7	6·2	6·0	6·3	6·0
13	6·1	5·3	3·9	3·6	4·5	6·1	7·8	9·1	9·6	8·9	7·6	6·1	5·1	5·3	6·1
14	6·3	5·5	4·6	4·7	5·2	6·3	7·3	8·7	9·4	8·6	6·3	5·5	4·7	4·7	4·7
15	5·7	4·9	4·0	4·0	5·8	7·9	9·1	9·5	9·2	8·6	7·0	5·7	6·0	6·2	6·1
16	5·6	4·5	3·2	3·2	4·6	6·6	8·5	9·6	9·2	7·8	5·9	5·2	5·8	5·7	5·9
17	5·8	4·9	3·6	3·9	5·7	7·7	8·8	9·1	9·1	8·3	6·7	6·0	5·5	5·2	5·8
18	5·9	5·1	3·9	3·9	5·5	8·0	9·3	10·1	9·3	8·2	6·8	5·5	4·9	4·9	5·5
19†	5·8	5·0	3·6	3·1	5·5	8·1	9·0	9·1	9·1	8·0	6·5	5·6	5·2	6·0	6·0
20	5·5	5·0	3·8	3·6	4·8	6·5	7·8	9·1	9·1	8·3	7·0	6·0	5·7	6·2	6·7
21	5·6	5·2	4·2	3·9	5·1	6·2	7·7	9·0	9·0	7·9	6·3	5·1	5·0	6·0	6·5
22	4·9	5·7	3·9	3·4	4·2	5·9	7·3	7·1	7·0	6·3	5·5	4·4	4·7	5·1	5·1
23	5·5	4·9	3·9	3·8	4·5	6·2	8·0	9·8	9·6	7·9	6·1	5·1	5·1	5·8	6·0
24	6·0	5·2	3·9	3·9	4·5	6·0	7·1	8·1	9·0	8·3	7·4	6·8	6·1	6·1	6·2
25	6·0	5·8	4·6	4·1	5·2	6·3	7·9	9·0	9·4	8·9	7·7	6·8	7·0	7·1	7·1
26	6·2	6·3	5·2	4·1	4·1	5·1	6·3	8·1	9·1	8·6	7·2	6·6	6·6	6·8	6·8
27	6·1	6·2	5·3	4·0	4·5	5·5	6·6	7·6	8·0	8·0	7·1	6·1	6·0	6·2	6·1
28	6·4	6·2	5·9	5·7	5·5	6·1	7·3	8·3	8·2	7·6	6·6	6·1	6·4	6·6	6·5
29†	6·6	6·1	5·1	4·1	5·0	6·6	7·8	8·6	9·2	8·1	7·4	7·1	7·1	7·1	6·9
30	7·1	7·5	5·9	5·1	5·1	6·5	8·1	9·2	10·0	9·2	7·6	6·5	6·3	6·3	6·9
Mean .	5·8	5·3	4·1	3·8	4·8	6·5	7·9	9·0	9·2	8·4	7·1	6·0	5·7	5·9	6·2
Mean† .	5·9	5·0	3·8	3·5	5·1	7·3	9·0	9·7	9·8	9·1	7·7	6·4	5·7	6·1	6·4

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1†	6·9	6·6	5·9	5·0	4·8	5·7	6·1	8·7	9·3	8·7	7·7	7·0	6·7	7·0	7·1
2†	7·0	6·6	5·5	4·4	4·4	5·1	6·4	7·6	8·2	7·6	6·6	6·0	6·2	6·7	7·0
3	6·7	6·6	5·6	4·9	5·1	6·1	7·2	8·8	9·1	8·2	7·1	6·4	6·2	6·9	7·1
4	6·8	6·5	5·5	4·6	5·1	6·0	7·1	8·5	9·0	8·3	7·6	6·5	6·1	6·3	6·6
5	6·4	6·6	6·1	5·7	6·0	6·5	7·1	8·2	8·4	7·7	6·5	6·1	6·7	7·0	7·1
6	7·0	7·0	6·1	5·1	4·9	5·2	6·1	7·6	8·1	8·2	7·6	7·3	7·3	7·5	7·1
7	6·7	6·7	5·8	4·6	5·3	6·3	7·1	7·4	8·2	8·1	7·6	6·3	6·3	5·7	5·8
8	6·2	6·1	6·5	7·5	7·5	7·1	7·1	6·9	8·0	6·4	6·0	5·9	5·3	6·5	6·3
9	6·6	6·6	5·5	4·5	5·0	5·6	6·5	7·0	7·6	7·0	6·1	5·3	4·5	4·7	5·0
10	7·0	7·0	6·1	5·4	5·7	6·0	6·7	7·0	6·7	7·0	6·7	6·7	6·0	6·0	6·7
11	6·9	7·0	5·9	4·2	4·3	5·0	6·2	7·1	7·2	7·6	7·1	7·0	6·8	6·6	6·9
12	7·0	6·7	5·5	4·1	4·3	5·0	6·8	8·0	8·1	7·6	7·1	6·2	5·5	5·9	6·0
13	6·8	6·2	5·2	4·9	5·2	6·0	6·9	7·8	7·9	7·0	6·1	5·0	5·9	6·1	6·1
14	6·4	6·0	5·0	5·0	5·8	6·9	8·1	8·3	8·2	7·8	7·0	6·4	6·3	6·7	6·5
15†	6·3	6·2	5·1	4·2	5·1	6·8	8·5	9·2	8·1	7·4	6·4	5·7	5·7	6·1	6·2
16	6·8	6·5	5·8	5·3	5·3	5·7	7·1	8·0	8·1	7·6	7·1	7·0	6·5	6·0	5·4
17	8·1	7·1	5·7	5·0	3·7	4·2	5·4	6·1	6·4	7·1	6·3	6·4	6·3	6·7	6·6
18	6·9	8·2	6·3	6·1	5·9	6·1	6·6	7·4	7·1	6·9	6·1	5·9	6·0	5·9	5·1
19	6·6	7·3	6·2	5·5	5·4	5·5	6·3	6·9	5·5	5·6	6·1	6·1	6·6	6·7	6·1
20	7·1	6·6	6·1	6·1	6·8	8·1	8·9	8·7	8·1	7·3	6·7	6·7	6·8	6·8	6·4
21	6·9	7·1	6·5	5·3	5·6	6·4	7·2	8·1	8·1	7·3	6·4	6·2	6·7	7·2	7·1
22	7·3	7·3	7·0	6·3	6·3	6·7	7·2	7·7	7·9	7·5	6·3	6·1	6·4	6·8	7·1
23	6·9	7·3	6·5	5·7	5·7	6·1	7·1	8·4	8·3	8·2	7·3	7·3	7·5	7·7	7·3
24	7·8	7·5	7·8	7·3	7·4	7·5	8·5	8·8	8·4	8·3	7·5	6·9	7·0	7·0	7·2
25	7·4	7·4	7·3	6·2	6·5	7·0	6·6	8·3	8·3	8·3	7·8	7·3	7·3	7·3	7·3
26†	7·8	7·6	7·3	6·3	6·2	6·5	7·2	8·0	8·0	7·9	7·8	7·3	7·0	7·2	7·2
27†	7·8	7·7	7·3	6·5	7·0	7·6	8·3	8·6	8·3	8·1	8·1	7·8	7·5	7·4	7·5
28	7·7	7·8	7·4	7·0	6·9	7·3	8·0	8·5	8·4	7·8	7·6	7·6	7·8	7·8	7·5
29	7·1	7·5	7·3	7·3	7·6	8·5	9·0	8·5	8·0	7·2	6·5	6·7	7·3	7·3	7·1
30	7·4	7·4	7·6	8·1	9·1	10·3	10·0	9·3	8·4	7·5	7·0	7·1	7·4	7·1	6·3
31	6·9	6·7	6·5	6·1	6·1	6·6	7·3	8·0	7·4	7·3	7·3	7·2	7·3	7·6	7·3
Mean	7·0	6·9	6·3	5·6	5·8	6·4	7·3	8·0	7·9	7·6	6·9	6·6	6·5	6·7	6·7
Mean† .	7·2	6·9	6·2	5·3	5·5	6·3	7·3	8·4	8·4	7·9	7·3	6·8	6·6	6·9	7·0

† Five international quiet days.

(Averages for periods of sixty minutes centred at the full hours of Greenwich mean time.)

SEPTEMBER. 0° PLUS TABULAR QUANTITIES.

Hours									Mean.*	Maximum.		Minimum.		Date.
15	16	17	18	19	20	21	22	23		Time.	Mag.	Time.	Mag.	
′	′	′	′	′	′	′	′	′	′	H. M.	′	H. M.	′	
6·5	6·4	6·2	6·2	6·2	5·8	5·6	5·7	5·7	6·2	2 30	3·3	6 46	9·0	1
6·2	6·2	6·2	6·1	6·0	5·9	5·9	5·8	5·8	6·0	2 34	2·8	7 30	9·7	2
6·4	6·4	6·4	6·3	6·2	6·2	6·2	6·2	6·2	6·5	2 38	3·4	7 38	10·8	3†
6·3	6·3	6·1	6·0	6·0	6·0	6·1	6·0	5·9	6·6	2 30	3·6	8 30	10·7	4†
6·5	6·5	6·5	6·4	6·3	6·1	6·1	6·2	6·1	6·5	2 34	2·7	7 30	**11·1**	5†
6·5	6·3	6·6	6·4	6·4	6·2	6·0	5·9	5·8	6·3	2 30	3·2	8 30	9·9	6
6·5	5·8	5·9	5·8	5·9	5·5	6·0	5·7	5·5	6·1	2 50	**2·2**	8 14	9·4	7
6·5	6·5	6·3	6·2	6·0	5·9	5·8	5·8	5·7	6·3	2 26	2·8	7 30	10·5	8
6·9	6·8	6·8	6·6	6·3	6·3	6·2	6·1	5·8	6·5	2 50	3·3	7 38	10·0	9
6·3	5·9	5·9	6·2	5·9	6·1	5·9	5·9	5·9	6·0	2 38	3·9	7 46	9·3	10
5·5	5·6	5·7	5·8	6·1	6·0	6·1	6·1	6·0	6·2	2 30	3·9	7 50	9·3	11
5·4	5·4	5·5	5·5	5·6	5·9	5·9	6·1	6·5	6·9	2 42	3·4	8 2	8·7	12
6·2	[illegible]	6·1	6·1	5·3	5·9	6·0	6·1	6·2	6·2	2 38	3·4	7 54	9·7	13
4·8	5·2	5·8	5·7	5·7	6·4	5·5	6·1	6·5	6·0	2 34	4·2	7 42	9·5	14
6·5	6·5	6·2	6·1	6·5	6·4	6·1	6·0	5·9	6·5	2 42	3·6	6 42	10·2	15
5·5	5·9	5·8	6·0	6·0	6·0	5·8	6·0	6·1	6·0	2 46	2·9	7 30	9·7	16
6·1	6·2	6·5	6·2	6·2	6·2	6·1	6·0	6·0	6·3	2 30	3·3	7 38	8·4	17
6·0	6·4	6·2	6·2	5·9	5·7	5·7	5·9	6·3	6·3	2 34	3·6	7 30	10·1	18
6·5	6·5	6·5	6·5	6·3	6·1	6·0	6·0	5·9	6·3	2 38	2·9	7 6	9·2	19†
6·8	6·5	6·5	6·2	6·0	5·9	5·9	5·9	5·8	6·3	2 34	3·2	7 46	9·5	20
6·5	6·2	5·7	5·3	6·0	6·1	6·4	6·5	5·9	6·1	2 50	3·6	7 30	9·1	21
5·9	5·9	5·5	5·5	5·2	5·5	5·5	5·9	5·6	**5·5**	3 2	3·2	6 34	8·1	22
6·0	6·2	6·2	6·1	6·1	6·0	6·1	6·1	6·1	6·1	2 42	3·5	7 10	9·9	23
6·2	6·1	6·1	6·1	6·0	6·0	6·0	6·0	6·1	6·2	2 18	3·7	7 50	8·7	24
6·9	7·0	6·6	6·4	6·1	6·0	6·0	6·0	6·0	6·7	2 58	4·0	7 42	9·5	25
6·6	6·6	6·3	6·1	6·1	5·9	5·9	6·0	6·0	6·3	3 54	3·9	8 6	9·1	26
6·3	7·0	6·9	6·6	6·0	6·1	6·0	6·1	6·2	6·3	3 30	3·9	7 42	8·2	27
6·4	6·3	6·3	6·3	6·2	6·2	6·3	6·4	6·6	6·5	3 54	5·1	8 6	8·4	28
6·9	6·8	6·8	6·7	6·6	6·5	6·6	6·8	7·0	6·8	3 30	4·0	8 2	9·2	29†
6·5	6·6	6·5	6·3	6·3	6·3	6·3	6·5	6·6	**6·9**	3 30	4·8	7 38	9·7	30
6·3	6·3	6·2	6·1	6·1	6·1	6·0	6·0	6·1	6·3					Mean.
6·5	6·5	6·5	6·4	6·3	6·2	6·2	6·2	6·2	6·6					Mean†

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7·1	7·0	7·0	6·9	6·8	**6·6**	6·6	6·5	6·6	6·9	3 46	4·5	8 6	9·6	1†
6·9	6·9	6·8	6·4	6·3	6·3	6·3	6·4	6·7	6·4	2 30	4·1	7 4	8·2	2†
7·1	7·1	7·0	6·4	6·2	6·2	6·3	6·3	6·5	6·7	3 22	4·5	7 30	9·2	3
7·0	6·6	6·6	6·2	6·1	6·1	6·1	6·1	6·5	6·6	2 50	4·4	8 2	9·1	4
7·1	7·1	6·9	6·6	6·3	6·2	6·2	6·3	6·7	6·7	3 2	5·6	8 10	8·7	5
7·1	6·9	6·7	6·7	6·6	6·3	6·3	6·4	6·6	6·7	3 54	5·0	8 34	8·2	6
6·5	6·4	6·3	6·1	6·1	5·8	5·2	5·1	5·6	6·3	3 30	4·5	8 2	8·5	7
6·1	6·2	6·0	6·0	6·2	6·0	6·0	6·0	6·4	6·4	12 2	5·0	3 10	7·8	8
6·1	6·1	6·1	6·1	6·4	6·2	6·0	6·1	6·8	**6·0**	3 30	4·3	8 6	7·9	9
6·7	6·6	6·4	6·2	6·1	6·4	6·5	6·5	6·7	6·5	2 58	5·1	9 10	7·4	10
6·5	6·4	6·2	6·1	6·1	6·5	6·5	6·5	6·9	6·4	3 30	4·0	8 54	7·7	11
6·0	6·0	5·9	5·8	5·6	6·1	6·2	6·7	6·6	6·2	3 26	4·0	7 30	8·1	12
6·1	6·0	6·1	6·2	6·3	6·2	6·3	6·3	6·4	6·2	3 18	4·8	7 46	7·9	13
6·1	6·2	6·2	6·2	6·2	6·2	6·2	6·2	6·3	6·5	2 42	4·9	6 38	8·3	14
6·2	6·2	6·3	6·3	6·3	6·5	6·7	6·7	6·7	6·5	2 58	4·0	6 42	9·3	15†
6·5	6·5	5·3	5·3	5·3	5·1	6·5	7·1	7·4	6·4	20 2	4·9	7 6	8·1	16
6·5	6·6	7·0	6·5	6·1	6·2	5·8	6·3	6·5	6·2	3 50	**3·5**	8 54	7·5	17
5·1	5·7	5·8	5·7	6·1	6·1	6·6	6·7	6·1	6·3	13 42	5·0	7 30	7·4	18
6·1	6·1	5·7	5·3	5·8	6·1	6·1	6·2	6·6	6·1	3 50	5·3	6 42	6·9	19
6·5	6·8	6·3	6·4	6·0	6·1	6·1	6·3	6·7	6·9	2 38	6·0	5 50	8·9	20
7·1	7·1	7·1	7·1	7·1	7·1	7·2	7·2	7·2	6·9	3 30	5·2	7 30	8·2	21
7·1	7·1	7·1	7·0	6·7	6·7	7·0	6·9	6·7	6·9	9 54	5·9	7 50	7·9	22
7·3	7·3	7·0	6·9	7·1	7·1	7·2	7·3	7·2	7·2	3 30	5·6	7 30	8·5	23
6·8	6·9	6·9	6·8	6·8	7·3	7·1	6·9	7·2	7·4	19 2	6·7	6 50	8·6	24
7·3	7·3	7·3	7·3	7·3	7·3	7·5	7·6	7·7	7·4	3 30	6·1	7 54	8·4	25
7·2	7·2	7·3	7·3	7·3	7·5	7·5	7·6	7·7	7·3	4 30	6·1	7 30	8·0	26†
7·4	7·4	7·3	7·2	7·3	7·3	7·3	7·3	7·5	**7·5**	3 26	6·4	7 38	8·6	27†
7·5	7·5	7·5	7·4	7·3	7·3	7·3	7·3	7·3	7·5	3 50	6·9	7 30	8·6	28
7·3	7·3	7·3	7·3	7·3	7·3	7·3	7·3	7·4	7·5	10 30	6·4	6 38	9·3	29
6·8	6·7	6·5	6·2	6·2	6·1	6·3	6·7	7·0	7·4	19 42	6·0	5 30	**10·4**	30
7·3	7·3	7·1	7·0	6·9	7.3	7·2	7·3	7·3	7·1	3 30	6·0	6 30	8·3	31
6·7	6·7	6·6	6·5	6·5	6·5	6·6	6·7	6·8	6·7					Mean.
6·9	6·9	6·9	6·8	6·8	6·8	6·9	6·9	7·1	6·9					Mean.†

* See footnote on page 89.
† Five international quiet days.

(Averages for periods of sixty minutes centred at the full hours of Greenwich mean time.)

NOVEMBER. 0° PLUS TABULAR QUANTITIES.

Date.	Hours (G. M. T.)														
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
1	7·4	7·5	7·1	6·4	6·0	6·2	7·2	7·6	7·0	6·8	6·8	6·9	7·1	7·5	7·3
2	6·5	7·1	6·3	5·4	5·5	5·7	6·5	7·1	6·7	6·1	6·2	6·1	6·7	6·9	6·2
3	6·9	6·5	7·3	7·1	5·9	7·1	8·2	7·1	6·2	6·2	5·7	5·9	6·2	5·3	5·3
4	7·2	6·7	7·0	6·2	6·5	7·7	8·4	9·3	8·5	7·8	6·9	6·3	6·7	6·9	6·8
5	7·2	7·1	6·8	6·2	6·6	6·9	7·3	8·2	7·9	6·9	6·2	6·2	5·4	6·7	6·7
6	7·2	7·2	6·7	5·9	6·0	6·2	6·5	7·5	6·7	6·0	6·1	5·3	5·7	6·2	6·1
7	7·2	7·0	7·1	6·4	5·5	6·0	7·5	7·2	6·5	6·3	6·5	6·5	6·6	7·0	6·7
8	6·7	6·9	6·7	6·2	6·1	6·9	7·9	8·2	7·5	6·5	6·2	6·3	6·7	7·1	7·1
9	8·0	7·8	6·7	6·2	6·7	7·5	8·4	8·7	8·1	7·2	6·7	6·7	6·5	6·5	6·3
10†	6·7	6·6	6·1	5·5	5·6	6·4	7·3	7·6	6·5	5·9	6·1	6·1	6·3	6·9	6·7
11†	7·1	7·1	6·6	5·8	6·3	8·2	9·9	9·7	9·0	8·2	8·1	7·6	7·1	7·1	6·9
12	7·3	7·3	7·1	5·9	5·3	5·5	6·5	6·6	6·1	5·5	5·6	6·1	7·1	7·2	7·1
13	7·1	7·2	7·5	7·1	7·1	7·3	7·9	7·7	6·9	6·3	6·3	6·3	6·6	6·1	6·9
14	7·6	7·6	7·7	6·6	6·5	6·6	6·9	7·0	6·4	6·1	6·1	6·1	6·3	7·1	6·8
15	7·9	8·0	8·1	6·8	6·0	5·8	5·6	5·9	5·5	4·9	5·0	6·0	6·3	6·8	6·4
16	7·6	7·1	7·4	7·1	6·8	6·9	7·3	7·5	7·6	7·1	6·7	6·5	6·0	6·4	6·5
17	7·1	7·4	7·9	7·8	7·7	7·6	7·3	7·2	6·9	6·6	6·6	6·8	7·0	7·0	6·9
18†	7·1	7·2	6·8	5·7	5·5	6·2	7·1	7·1	7·0	6·9	7·0	7·0	6·9	6·9	6·7
19	7·2	7·3	7·9	7·1	6·5	6·2	7·0	7·3	7·2	7·0	7·0	6·7	6·5	6·5	6·7
20	7·9	8·0	7·7	7·0	6·2	6·2	6·8	6·9	6·3	6·7	7·0	7·0	7·0	7·0	6·9
21	7·7	7·9	8·9	8·4	7·7	7·0	7·1	6·8	6·6	6·7	6·4	6·8	6·9	6·9	6·9
22	7·9	7·9	8·1	7·9	7·5	6·9	7·5	7·9	7·4	7·1	6·9	6·9	6·9	7·5	7·4
23	7·1	7·5	7·8	7·9	7·8	7·6	7·9	8·6	8·1	7·9	7·9	7·4	7·1	7·0	6·9
24†	7·6	7·7	7·7	7·3	7·1	7·7	8·5	8·9	8·7	8·2	7·9	7·9	7·9	7·8	7·4
25†	7·7	7·7	7·4	6·9	7·1	7·6	8·6	8·8	8·4	7·9	7·9	8·3	8·3	7·9	7·7
26	7·9	8·0	8·5	8·5	8·2	7·8	7·8	7·7	7·1	7·3	7·3	6·8	7·7	7·8	7·8
27	7·8	7·8	8·5	7·8	8·1	8·8	8·8	8·8	8·1	7·8	7·3	6·9	7·6	7·7	7·0
28	6·9	7·8	8·7	8·0	7·5	7·3	7·7	7·7	6·9	7·1	6·7	6·7	6·9	7·3	7·4
29	7·4	7·4	7·4	7·7	8·2	9·3	9·3	8·8	8·1	7·7	7·5	7·2	7·4	7·2	7·3
30	7·5	7·4	7·1	7·2	7·5	8·3	8·9	8·8	8·1	7·3	6·9	6·7	7·3	7·7	7·6
Mean .	7·3	7·4	7·4	6·9	6·7	7·1	7·7	7·8	7·3	6·9	6·7	6·7	6·8	7·0	6·9
Mean† .	7·3	7·3	6·9	6·2	6·3	7·2	8·3	8·4	7·9	7·4	7·4	7·4	7·3	7·3	7·1

DECEMBER.

1†	7·6	7·7	7·6	6·7	6·5	7·2	8·6	8·7	7·8	7·3	6·6	6·6	7·1	7·7	7·2
2†	7·7	7·7	7·9	7·6	6·7	7·4	8·7	9·3	9·2	8·9	8·4	7·7	7·7	7·7	7·2
3	7·7	7·6	7·6	7·6	6·0	7·3	8·5	8·1	7·0	6·2	6·0	6·1	6·8	7·4	6·7
4	7·5	7·7	7·3	6·9	6·2	6·5	7·1	6·5	5·7	5·7	4·7	5·4	5·4	4·4	4·3
5	7·7	8·2	8·4	7·3	5·7	5·8	7·7	7·4	6·6	6·5	5·8	4·8	4·5	5·3	5·1
6	7·2	7·6	7·6	6·2	5·7	6·5	7·6	8·1	7·6	7·0	6·4	5·5	6·4	6·4	6·1
7	6·8	6·8	6·4	5·6	5·5	6·0	6·5	7·7	7·1	6·3	6·6	6·6	6·5	5·9	5·7
8	6·9	7·1	7·1	6·3	5·6	6·1	6·4	6·6	6·6	6·3	6·1	6·2	6·2	5·8	6·3
9	7·0	7·1	6·8	5·8	4·6	5·2	6·5	6·8	6·2	5·9	6·0	6·5	6·6	6·8	6·5
10	6·5	6·7	7·2	6·4	5·1	6·3	7·6	7·4	6·3	5·6	5·3	5·4	6·3	6·9	6·5
11	7·2	7·2	7·5	6·5	6·0	5·9	6·8	7·2	7·0	6·5	6·4	6·0	6·2	6·6	6·3
12	7·0	7·5	7·1	6·1	5·2	5·8	6·5	6·2	6·2	6·5	6·8	6·5	6·9	6·7	6·5
13	6·9	6·6	6·5	6·0	5·7	6·0	6·4	6·4	6·7	6·5	5·8	5·5	5·9	6·5	5·9
14	7·2	7·2	6·8	5·5	5·1	6·8	7·7	7·8	7·7	7·7	7·5	6·8	6·9	7·5	6·7
15	8·2	8·2	7·8	7·1	5·7	5·9	6·8	6·8	6·7	6·5	6·6	6·1	6·7	7·2	6·7
16	7·9	8·1	8·0	7·1	6·3	5·8	7·0	6·3	6·0	5·7	5·7	5·7	6·1	6·2	5·8
17	7·9	8·2	9·2	9·2	7·8	7·4	7·8	7·3	6·2	6·3	6·1	6·1	6·7	6·8	6·8
18	6·8	6·8	7·6	7·1	6·3	6·6	7·2	6·7	6·2	5·7	5·9	6·0	6·4	6·9	6·7
19†	6·9	7·1	7·3	7·2	6·7	6·9	7·6	7·1	6·2	6·0	6·0	5·7	6·4	6·9	6·6
20†	7·1	7·1	6·9	6·2	5·9	6·7	7·5	7·3	7·2	7·0	6·3	6·1	6·3	7·0	6·9
21†	7·3	7·3	7·6	7·3	7·1	7·7	8·6	8·3	7·5	6·7	6·1	6·1	6·2	6·7	6·9
22	7·1	7·1	7·1	7·1	7·3	8·3	9·2	9·0	8·7	7·0	6·7	6·9	6·6	6·8	6·8
23	6·6	6·6	6·9	6·9	6·1	6·6	7·7	8·5	8·3	7·9	7·2	6·7	6·4	6·6	6·3
24	7·0	7·1	7·1	7·0	6·5	6·3	6·6	8·5	9·0	8·8	7·8	7·1	7·1	7·4	7·0
25	7·9	8·2	8·2	7·9	7·1	6·7	7·5	8·2	8·3	8·5	8·2	7·1	6·7	7·1	6·6
26	7·9	8·2	8·2	7·6	6·9	6·9	6·9	7·1	7·9	8·7	8·9	8·0	7·5	7·4	7·2
27	7·9	8·1	8·0	7·4	6·4	6·1	6·4	6·7	7·8	8·2	8·2	8·2	7·6	7·2	7·2
28	7·4	7·9	8·0	7·5	7·1	6·3	6·2	6·3	6·2	6·3	6·9	7·7	8·2	7·7	7·4
29	7·2	7·9	8·2	8·2	7·7	7·2	7·8	8·6	9·1	8·5	7·7	7·2	7·6	7·7	7·2
30	7·2	7·3	7·8	7·9	7·3	7·3	7·7	7·9	7·1	6·7	6·8	6·9	7·4	7·3	7·2
31	7·4	7·4	7·9	7·7	7·1	7·5	8·8	9·2	9·0	7·7	7·2	7·1	7·4	7·6	7·2
Mean .	7·3	7·5	7·5	7·0	6·3	6·6	7·4	7·5	7·3	6·9	6·7	6·5	6·7	6·8	6·6
Mean† .	7·3	7·4	7·5	7·0	6·6	7·2	8·2	8·1	7·6	7·2	6·7	6·5	6·7	7·2	7·0

† Five international quiet days.

NOVEMBER.

(Averages for periods of sixty minutes centred at the full hours of Greenwich mean time.)

0° PLUS TABULAR QUANTITIES.

Hours. (G. M. T.)									Mean.*	Maximum.		Minimum.		Date.
15	16	17	18	19	20	21	22	23		Time.	Mag.	Time.	Mag.	
′	′	′	′	′	′	′	′	′	′	H. M.	′	H. M.	′	
7·1	7·2	7·3	7·2	7·1	6·8	6·2	6·3	6·6	6·9	4 2	5·7	7 6	8·0	1
6·4	6·7	6·7	6·4	6·5	6·6	6·9	6·6	6·5	6·5	3 30	5·2	6 46	7·3	2
5·7	5·3	6·3	6·2	6·5	6·4	7·3	6·7	6·5	**6·4**	14 50	4·6	5 38	8·3	3
6·0	6·3	6·3	6·2	6·4	7·0	6·9	7·3	7·3	7·0	15 10	5·6	7 10	9·4	4
6·5	6·8	6·3	6·4	6·6	6·9	7·1	7·0	7·0	6·8	11 58	5·2	7 38	8·4	5
6·5	7·0	7·2	6·8	6·7	6·7	6·5	6·7	7·0	6·5	11 22	5·0	6 34	7·6	6
6·9	6·8	7·0	6·4	6·2	6·4	6·5	6·5	6·8	6·6	4 14	5·1	6 30	7·7	7
7·1	7·2	7·1	7·0	6·9	7·0	7·1	7·3	7·5	7·0	3 30	5·8	6 34	8·3	8
6·5	6·6	6·7	6·5	6·5	6·6	6·7	6·7	6·7	6·9	13 46	5·7	7 2	8·8	9
6·8	6·9	7·0	7·0	7·0	6·9	7·1	7·1	7·1	6·7	3 30	5·1	6 50	7·8	10†
6·9	7·1	7·1	7·1	7·0	6·9	7·0	7·1	7·1	7·4	3 38	5·7	6 30	**9·9**	11†
7·1	7·1	7·2	7·1	7·0	7·1	7·1	7·1	7·4	6·7	4 14	4·9	12 42	7·5	12
6·9	6·9	6·9	6·8	6·9	7·0	7·1	6·9	7·2	7·0	11 30	6·1	6 30	8·0	13
7·1	6·9	6·9	6·9	6·9	6·9	6·7	6·8	7·3	6·8	9 30	6·0	1 42	8·2	14
6·5	6·0	6·4	6·4	6·7	6·3	6·3	7·0	7·2	6·4	9 38	**4·3**	1 34	8·2	15
6·0	6·2	6·1	5·5	5·2	5·6	6·0	5·9	6·7	6·5	18 38	5·1	7 50	7·9	16
6·9	6·9	6·7	6·5	6·3	6·5	6·5	6·8	7·0	7·0	19 6	6·2	3 2	8·0	17
6·7	6·9	6·7	6·6	6·7	6·7	6·9	7·1	7·0	6·8	3 54	5·1	6 34	7·6	18†
6·9	7·0	7·0	7·0	7·0	7·0	7·2	7·5	7·5	7·0	4 46	5·9	2 30	8·0	19
6·8	6·4	6·9	5·8	5·8	5·7	5·9	6·7	7·0	6·7	19 38	5·6	1 30	8·1	20
6·9	6·9	7·0	7·0	7·1	7·1	7·2	7·3	7·7	7·2	10 14	6·2	2 10	9·0	21
7·2	7·2	7·2	6·9	6·9	6·9	6·9	6·9	7·1	7·3	4 54	6·8	2 6	8·4	22
6·9	7·0	7·2	7·1	7·0	7·3	7·5	7·5	7·3	7·5	14 30	6·8	7 6	8·7	23
7·3	7·4	7·4	7·4	7·4	7·2	7·4	7·6	7·7	7·7	3 50	6·9	7 10	9·0	24†
7·1	7·6	7·6	7·6	7·6	7·7	7·9	7·9	7·9	**7·8**	3 42	6·8	7 18	8·9	25†
7·8	7·8	7·8	7·6	7·5	7·8	7·7	7·8	8·1	7·8	10 38	6·7	3 30	8·6	26
7·4	7·5	7·6	7·1	7·2	6·7	6·8	7·3	6·9	7·6	21 18	6·6	5 10	8·9	27
7·3	7·7	7·7	7·2	7·2	6·7	6·9	6·9	7·5	7·3	11 22	6.6	2 30	8·8	28
7·4	7·2	7·6	7·2	7·4	7·0	7·2	7·3	7·2	7·7	19 6	6·9	4 46	9·4	29
7·3	7·1	7·4	7·2	7·2	7·2	7·6	7·6	7·5	7·5	10 30	6·7	6 46	9·4	30
6·9	6·9	7·0	6·8	6·8	6·8	6·9	7·0	7·2	7·0					Mean.
6·9	7·2	7·2	7·1	7·1	7·1	7·2	7·3	7·4	7·3					Mean.†

DECEMBER.

7·4	7·6	7·5	7·3	7·3	7·3	7·5	7·6	7·7	7·4	4 2	6·2	6 30	8·8	1†
7·1	7·2	7·1	7·1	7·2	7·5	7·5	7·5	7·7	**7·7**	4 10	6·5	6 46	9·5	2†
6·9	6·7	6·7	6·8	6·7	6·7	6·5	5·6	6·2	6·9	21 46	5·6	6 30	8·7	3
3·6	5·1	5·6	5·6	6·1	6·0	6·4	6·6	7·3	**6·0**	15 2	**3·3**	0 54	8·2	4
4·5	5·4	4·8	5·6	6·2	6·7	6·6	6·4	6·6	6·2	14 46	4·3	1 30	8·5	5
6·2	6·5	6·1	6·5	6·5	6·8	6·7	6·5	6·6	6·7	3 46	5·3	6 38	8·6	6
6·4	6·4	6·6	6·6	6·7	6·6	6·6	6·6	6·8	6·5	4 30	5·3	6 30	8·1	7
6·5	6·4	6·6	6·7	6·6	6·6	6·7	6·8	6·8	6·5	5 46	5·3	1 18	7·5	8
6·8	7·0	7·1	7·0	6·9	6·6	6·5	6·5	6·8	6·5	4 30	4·5	1 26	7·2	9
6·2	6·5	6·5	6·5	6·6	6·6	6·8	7·2	7·3	6·5	3 50	5·0	6 30	8·1	10
6·3	6·7	6·6	6·0	6·5	6·7	6·6	6·5	6·5	6·6	5 10	5·3	2 6	7·7	11
6·7	6·6	6·6	6·5	6·5	6·5	6·5	6·6	6·8	6·5	4 10	5·0	1 30	8·2	12
6·3	6·5	6·5	6·6	6·7	6·8	6·9	7·0	7·0	6·4	10 2	5·4	22 30	7·3	13
6·8	6·8	6·7	6·7	7·3	7·2	7·5	7·5	7·7	7·1	3 50	5·0	6 30	8·3	14
6·6	6·6	7·1	7·1	7·2	7·4	7·7	7·7	7·9	7·0	4 30	5·5	0 38	8·5	15
5·7	5·4	5·3	4·7	5·7	5·7	6·1	6·8	7·2	6·3	18 10	4·3	1 30	8·2	16
6·8	6·9	6·8	6·8	6·1	5·6	5·7	5·2	5·6	6·9	21 54	5·1	2 38	9·5	17
6·9	7·2	7·0	6·9	6·7	6·7	6·7	6·7	6·7	6·7	9 30	5·6	13 6	7·7	18
6·5	6·7	6·6	6·5	6·5	6·6	6·7	6·9	6·9	6·7	10 46	5·7	6 30	8·2	19†
6·9	7·1	7·1	7·0	7·0	7·0	7·0	7·0	7·3	6·9	4 18	5·8	6 30	7·6	20†
7·0	7·1	7·1	7·1	7·1	7·1	7·1	7·1	7·1	7·1	10 30	6·0	6 38	8·7	21†
6·6	6·7	6·3	6·3	6·0	5·9	6·1	6·2	6·4	7·0	20 30	5·6	6 6	**9·6**	22
6·3	6·5	6·5	6·9	6·6	6·3	6·5	6·9	6·7	6·9	4 10	6·0	8 30	8·7	23
6·8	6·9	6·9	7.1	7·1	7·1	7·2	7·2	8·0	7·3	5 30	6·2	8 42	9·4	24
7·1	7·0	7·1	7·2	7·1	7·1	7·3	7·4	7·9	7·5	13 34	6·3	9 6	8·7	25
7·0	7·1	7·2	7·2	7·2	7·2	7·2	7·2	7·5	7·5	5 30	6·7	9 30	9·1	26
7·1	7·2	7·1	7·1	6·9	6·6	6·7	7·1	7·3	7·3	5 34	6·1	1 6	8·6	27
7·3	7·3	7·2	7·1	7·1	6·9	6·7	6·7	6·5	7·1	5 54	6·1	12 6	8·3	28
7·2	7·2	6·9	6·9	6·7	6·2	6·2	6·5	6·9	7·4	19 30	6·1	7 54	9·2	29
7·2	7·1	7.2	7·2	7·2	7·2	7·2	7·1	7·2	7·2	8 30	6·6	2 50	8·2	30
7·0	7·3	7·3	7·2	7·2	7·2	7·2	7·2	7·2	7·5	15 18	6·7	6 46	9·3	31
6·6	6·7	6·7	6·7	6·7	6·7	6·8	6·8	7·0	6·9					Mean
7·0	7·1	7·1	7·0	7·0	7·1	7·2	7·2	7·3	7·2					Mean.†

* See footnote on page 89.

† Five international quiet days.

(Averages for periods of sixty minutes centred at the full hours of Greenwich mean time.)

JANUARY. 37000γ PLUS TABULAR QUANTITIES

Date.	Hours. (G. M. T.)														
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1†	179	180	179	181	187	198	207	209	201	192	191	185	181	187	189
2	188	192	195	195	196	205	210	211	210	210	212	208	198	196	194
3	196	199	198	196	191	201	205	201	218	208	207	203	200	198	199
4	166	171	163	213	166	167	184	184	218	197	202	209	197	192	190
5	183	184	182	193	200	197	192	203	200	192	204	198	187	193	186
6	142	144	147	159	170	177	170	178	178	169	166	163	167	166	165
7	171	175	178	181	185	198	202	204	192	182	176	176	171	172	173
8	177	180	181	184	187	201	205	206	205	194	190	178	175	168	155
9	150	151	135	134	147	165	156	159	160	167	162	147	153	141	143
10	165	152	155	161	170	179	189	195	178	172	161	162	163	154	152
11	171	186	173	173	171	192	195	192	167	159	152	149	158	168	172
12	170	168	173	182	189	191	199	200	189	178	171	196	168	171	172
13	180	185	188	198	204	212	212	208	195	177	162	157	153	163	166
14	172	176	179	182	192	203	221	215	201	188	171	166	169	159	158
15	171	167	169	177	184	203	198	193	187	187	185	177	171	164	164
16	176	177	182	185	184	187	203	210	210	200	189	181	173	159	164
17†	178	180	180	186	197	209	211	209	209	194	185	179	178	179	179
18†	182	184	190	197	199	205	230	238	233	218	206	193	183	179	182
19†	186	188	192	201	209	222	240	**241**	239	227	213	201	197	195	191
20	189	195	200	207	208	213	223	224	226	225	219	223	211	209	208
21	179	184	189	192	191	189	180	177	184	189	191	193	190	179	165
22	180	183	188	188	190	195	207	208	210	204	195	185	171	156	161
23†	169	173	175	179	184	197	208	215	210	197	184	180	181	183	184
24	180	187	192	198	200	207	213	213	200	201	194	184	186	187	186
25	181	185	193	202	215	220	232	231	226	216	201	193	191	188	184
26	186	189	197	204	210	220	231	233	221	215	207	199	192	188	187
27	176	180	187	197	210	219	227	227	220	215	207	197	190	187	189
28	190	190	193	197	207	217	225	229	225	212	202	194	194	190	192
29	191	196	203	212	218	227	222	227	222	219	209	191	179	171	168
30	164	167	176	180	188	183	205	205	206	201	197	196	186	186	180
31	182	185	186	191	205	212	220	220	216	211	209	201	194	187	177
Mean . .	177	179	181	188	192	200	207	**209**	205	197	191	186	181	178	177
Mean†. .	**179**	181	183	189	195	206	219	**222**	218	205	196	188	184	185	185

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1	183	186	187	191	204	201	230	227	231	225	208	200	187	176	186
2	192	188	189	192	195	205	213	218	214	207	199	200	193	181	181
3†	182	185	184	184	178	169	166	175	182	190	186	196	192	191	190
4†	191	192	198	200	206	209	217	218	216	218	211	204	199	195	190
5†	196	195	200	203	215	216	224	227	227	225	217	199	187	195	192
6	197	203	203	219	225	227	230	228	221	217	211	192	178	171	162
7	164	164	178	189	195	201	203	205	201	190	181	163	168	168	177
8	180	181	184	193	205	217	228	224	223	216	205	195	186	184	177
9	170	168	177	195	202	211	221	210	204	178	183	169	160	145	153
10	177	177	185	189	202	196	217	223	211	194	181	169	164	159	161
11	170	174	180	193	201	219	225	227	224	206	195	185	172	152	172
12	178	174	173	184	191	200	206	204	197	195	190	187	184	185	184
13	180	181	187	199	211	228	231	233	215	211	203	193	189	182	181
14†	188	189	194	204	212	225	244	**246**	242	222	207	203	199	192	190
15†	188	190	193	200	209	226	238	243	235	221	210	204	197	196	185
16	187	191	195	204	213	223	233	236	234	232	225	224	222	213	202
17	214	210	219	226	193	200	191	153	153	147	122	127	114	75	48
18	122	123	121	129	148	137	148	166	167	139	139	131	127	129	133
19	141	157	161	161	152	163	168	166	158	153	156	140	125	125	136
20	145	151	153	163	169	172	176	187	191	187	183	177	172	168	167
21	165	165	168	176	195	196	203	204	200	191	185	178	174	174	174
22	175	174	169	174	186	204	208	214	209	198	182	152	152	174	169
23	168	161	167	178	198	216	206	218	212	200	191	180	178	165	171
24	173	178	180	185	198	212	219	227	212	199	183	167	167	170	173
25	177	178	179	191	198	208	217	227	227	222	215	207	195	191	191
26	159	161	170	176	189	201	212	218	212	205	195	188	187	184	185
27	165	163	166	171	169	176	200	218	169	163	153	144	129	111	110
28	73	55	59	91	106	112	109	105	81	68	73	76	36	34	74
Mean .	171	172	176	184	192	199	207	**209**	202	193	185	177	169	164	165
Mean† .	189	190	194	198	204	209	218	**222**	220	215	206	201	195	194	189

†Five international quiet days.

(Averages for periods of sixty minutes centred at the full hours of Greenwich mean time.)

JANUARY. 37000γ PLUS TABULAR QUANTITIES.

Hours. (G. M. T.)									Mean.*	Maximum.		Minimum.		Date.
15	16	17	18	19	20	21	22	23		Time.	Mag.	Time.	Mag.	
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H. M.	γ	H. M.	γ	
186	187	187	188	188	189	187	188	187	189	6 50	210	0 0	178	1†
194	184	173	178	184	187	189	191	197	196	7 29	217	16 42	173	2
196	183	180	171	177	185	177	165	160	192	7 54	219	22 14	157	3
198	186	183	190	177	178	183	183	182	187	6 52	231	1 54	160	4
180	184	144	119	124	139	122	121	127	172	10 33	210	21 28	111	5
166	156	157	160	169	163	165	167	167	165	7 50	185	0 0	142	6
169	169	170	172	172	172	175	171	178	179	6 44	206	16 4	168	7
155	157	164	168	171	173	173	175	166	178	7 20	209	14 46	155	8
140	128	**115**	172	162	141	140	136	168	**149**	18 48	173	16 42	**109**	9
151	172	156	156	154	153	166	175	171	165	6 50	198	15 0	147	10
172	165	167	184	167	167	168	168	169	171	5 50	200	10 54	149	11
172	171	170	168	172	171	169	177	178	178	6 30	204	11 4	167	12
165	168	170	168	171	174	173	185	172	179	6 26	214	11 56	152	13
141	128	140	140	137	176	173	170	165	172	6 12	230	15 44	122	14
166	167	169	166	167	169	171	172	173	176	4 56	204	13 30	159	15
164	171	159	167	173	172	169	173	173	179	7 30	212	17 6	159	16
177	176	183	182	183	183	182	183	182	187	7 34	212	17 16	176	17†
179	173	177	182	184	185	183	184	185	194	7 6	239	16 2	173	18†
185	179	175	181	184	189	192	185	186	200	6 28	**245**	17 20	175	19†
203	206	206	203	201	196	195	182	177	**206**	8 56	232	22 38	175	20
173	177	170	174	170	176	179	180	180	181	10 14	197	14 6	162	21
165	160	166	172	174	176	170	165	165	180	7 34	213	13 57	156	22
181	181	181	175	175	178	179	179	179	185	6 50	217	0 0	169	23†
184	186	184	186	186	182	187	181	180	191	6 18	219	0 0	180	24
179	176	169	169	172	178	177	180	181	193	6 30	235	17 30	167	25
189	179	180	183	180	173	174	172	175	195	6 31	234	20 20	170	26
187	183	179	186	189	189	188	188	190	197	6 6	230	0 1	176	27
187	187	183	178	176	176	176	186	190	196	6 24	231	18 30	176	28
177	179	180	177	171	157	157	163	163	190	5 2	229	20 32	156	29
177	178	177	181	180	180	179	181	180	185	6 24	209	0 1	163	30
177	179	179	179	177	179	182	182	182	192	6 32	223	14 30	168	31
175	173	**171**	173	173	174	174	174	175	184					Mean
182	179	181	181	183	185	185	183	184	191					Mean†

FEBRUARY.

182	184	184	184	182	182	182	186	182	195	8 8	235	13 16	175	1
176	178	181	183	186	187	185	188	181	192	6 28	220	15 4	177	2
189	188	189	186	189	189	189	190	191	185	10 14	198	5 40	163	3†
186	186	191	191	193	193	194	194	195	200	7 56	218	15 34	186	4†
196	194	194	194	189	190	189	193	196	202	7 30	232	12 22	186	5†
135	141	150	150	187	162	172	167	183	188	6 46	235	15 10	134	6
174	174	171	173	172	175	181	183	178	181	6 36	210	0 20	157	7
180	161	173	152	154	166	141	157	170	185	5 58	232	20 52	135	8
159	173	162	181	169	166	173	174	175	178	6 2	223	13 36	142	9
154	145	161	161	177	171	169	168	169	178	6 44	224	15 22	143	10
159	164	173	173	173	172	174	173	177	185	6 36	228	12 48	150	11
178	178	172	171	172	181	177	177	179	184	5 58	210	1 14	171	12
181	181	179	179	189	187	186	184	186	195	6 50	238	17 56	178	13
186	180	180	179	180	180	180	184	184	199	6 50	**251**	16 10	179	14†
185	186	184	183	185	185	186	186	187	200	6 52	245	17 32	183	15†
192	171	162	169	182	191	198	191	197	**204**	6 50	239	17 22	155	16
47	**24**	97	95	85	145	83	93	135	131	2 38	233	16 4	**1**	17
130	123	117	125	119	119	122	122	125	132	7 30	170	17 14	115	18
115	104	135	138	139	153	136	135	145	144	6 6	172	15 42	98	19
164	162	157	160	156	152	135	158	160	166	8 32	194	0 10	145	20
170	164	170	169	164	161	170	162	166	177	6 32	208	19 50	156	21
161	168	148	150	156	159	174	156	163	174	6 48	218	11 38	145	22
177	174	171	172	173	178	181	180	171	183	5 16	222	0 18	161	23
172	167	165	165	172	179	178	174	177	183	6 58	228	16 26	164	24
187	186	179	168	153	144	146	150	160	187	7 24	230	19 56	142	25
184	174	171	169	174	192	181	172	169	185	7 12	220	0 16	157	26
109	123	85	67	40	36	89	83	76	128	6 50	225	20 0	21	27
87	97	100	115	120	128	131	132	133	**93**	23 42	135	12 4	28	28
161	**159**	161	161	162	165	164	165	168	176					Mean
188	**187**	187	187	187	187	187	189	191	197					Mean†

*The daily mean value of horizontal force derived from 24 hourly values has been corrected for progressive change by 1/48th of the difference between the initial and terminal hours.

†Five international quiet days.

133514

(Averages for periods of sixty minutes centred at the full hours of Greenwich mean time.)

MARCH. 37000γ PLUS TABULAR QUANTITIES.

Date.	Hours (G. M. T.) 0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	133	139	136	142	152	169	182	185	175	162	161	156	153	154	153
2	150	155	159	165	172	187	197	199	193	183	173	169	160	159	158
3	164	166	169	176	187	198	212	218	217	209	198	188	181	167	159
4†	170	167	166	176	185	197	200	202	199	194	191	191	188	183	179
5	184	176	188	199	225	247	247	**256**	252	229	211	205	192	177	183
6†	175	178	178	183	194	208	217	222	215	203	192	187	188	189	185
7	190	188	190	200	215	231	239	236	230	217	209	204	199	195	186
8	181	173	176	197	227	243	252	233	218	210	197	176	170	165	164
9	169	171	173	184	202	216	224	227	223	216	203	193	188	187	188
10†	185	185	186	199	217	232	241	245	242	230	217	206	195	192	190
11	191	191	192	200	212	226	235	225	223	210	196	185	191	195	223
12	179	169	169	146	137	109	90	73	57	32	19	8	**—12**	—2	11
13	110	102	98	110	132	148	164	153	139	125	131	112	116	123	126
14	145	145	146	153	161	175	186	190	181	171	159	148	135	122	128
15	157	159	164	184	205	227	240	243	217	218	185	166	157	147	122
16	152	141	119	107	126	132	130	129	122	108	110	106	97	117	138
17	156	155	157	167	182	193	195	199	189	183	179	169	163	157	155
18	159	160	163	170	180	188	199	205	208	204	189	181	174	165	165
19	165	170	173	179	187	202	214	215	213	204	193	187	188	185	182
20	178	181	185	183	192	201	198	194	179	178	177	178	176	177	178
21	182	191	188	174	174	188	160	144	151	162	156	145	119	117	125
22	165	164	169	179	188	192	209	197	184	174	169	172	172	160	157
23	168	171	183	205	220	236	242	237	229	217	203	193	184	178	166
24	171	170	177	191	211	226	232	220	214	202	196	183	175	165	160
25	175	177	181	196	212	215	225	229	218	208	198	189	183	179	170
26	183	181	185	191	204	221	231	222	216	202	201	196	191	188	188
27	189	185	189	198	208	221	232	232	233	224	216	209	197	189	192
28	189	188	195	205	217	231	241	247	247	235	220	205	195	193	198
29	178	182	182	183	183	192	206	211	210	203	192	185	176	175	174
30†	185	185	188	195	209	221	226	226	221	211	200	191	191	194	194
31†	190	193	197	205	217	229	242	233	231	220	210	202	203	201	197
Mean .	170	170	172	179	191	203	**210**	208	201	192	182	174	167	164	164
Mean+ .	**181**	181	183	192	204	217	**225**	225	221	212	202	195	193	192	189

APRIL.

1	211	210	216	231	247	265	269	262	235	211	204	198	197	200	201
2	205	204	208	217	231	243	248	247	243	237	227	215	210	209	203
3	197	194	199	210	229	242	251	241	233	222	213	205	198	187	180
4	196	198	200	214	242	265	273	270	248	217	211	185	185	181	171
5	198	202	209	226	243	258	260	255	242	222	203	188	191	189	188
6	192	196	198	206	225	242	243	243	238	225	209	199	202	201	198
7	197	199	205	221	236	249	250	247	241	230	224	217	211	209	208
8	200	199	204	215	233	240	248	245	241	224	212	234	193	197	200
9†	195	198	205	213	230	250	256	254	246	237	223	213	211	208	207
10	202	203	206	217	237	250	262	266	259	249	237	229	212	191	186
11	200	208	222	234	247	263	269	269	261	246	232	223	219	219	211
12	213	216	222	231	252	269	**275**	275	268	251	237	228	221	215	210
13	202	203	208	216	230	250	260	258	252	240	227	211	203	198	193
14†	200	202	210	228	249	265	272	275	265	250	236	225	220	218	210
15	213	211	215	225	238	252	261	264	255	243	237	230	223	221	224
16	204	205	211	205	205	208	217	211	194	187	178	171	158	145	159
17	179	168	165	170	187	205	213	211	204	193	182	188	182	187	184
18	191	183	181	192	209	222	226	225	215	203	196	193	185	181	185
19	195	190	196	207	219	235	239	238	227	218	204	195	193	188	184
20†	186	185	185	190	206	228	238	239	230	220	211	201	195	196	195
21	193	192	200	206	210	215	212	212	210	201	196	194	190	185	182
22	182	184	181	186	199	210	217	217	214	204	202	197	195	195	191
23†	192	193	197	208	220	233	242	239	233	224	219	212	207	198	195
24†	203	204	206	209	229	242	252	248	237	226	216	210	204	201	200
25	200	203	204	214	233	249	253	246	238	227	223	220	215	211	206
26	202	203	208	220	234	254	264	260	247	237	233	229	221	213	204
27	198	197	203	214	233	255	268	272	266	254	236	221	205	194	200
28	204	204	225	243	262	269	269	267	261	248	231	212	192	184	176
29	195	198	205	217	234	249	249	246	236	220	211	198	194	188	181
30	192	189	192	197	212	228	230	236	236	218	207	203	201	194	198
Mean .	198	198	203	213	229	243	**250**	248	239	226	216	208	201	197	194
Mean† .	**195**	196	200	210	227	243	**252**	251	242	231	221	212	207	204	202

†Five international quiet days.

(Averages for periods of sixty minutes centred at the full hour of Greenwich mean time.)

MARCH. 37000γ PLUS TABULAR QUANTITIES.

Hours (G. M. T.)									Mean.*	Maximum.		Minimum.		Date.
15	16	17	18	19	20	21	22	23		Time.	Mag.	Time.	Mag.	
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H. M.	γ	H. M.	γ	
148	152	141	146	158	152	149	145	146	154	6 8	186	0 14	131	1
155	153	157	157	166	161	159	158	160	167	7 10	201	0 10	150	2
163	155	146	155	178	171	168	161	169	178	7 36	221	17 40	137	3
173	172	176	176	176	177	177	180	180	183	6 20	205	1 48	164	4†
175	169	171	175	172	170	172	173	173	197	5 22	266	12 30	162	5
180	181	184	185	183	181	178	180	177	190	6 42	224	0 9	174	6†
177	168	169	184	161	167	159	160	173	193	6 2	240	17 12	158	7
160	173	161	165	166	174	167	166	166	187	5 38	**273**	15 2	153	8
183	180	188	180	181	179	185	185	184	192	6 38	233	0 26	167	9
185	183	183	185	186	186	185	189	191	202	7 6	248	16 52	182	10†
210	173	151	167	181	181	173	178	181	195	13 58	260	17 10	150	11
—3	51	23	44	53	78	97	90	94	**70**	0 9	183	13 4	—**29**	12
122	133	137	139	139	137	137	142	143	131	5 34	171	1 50	95	13
125	130	137	141	142	148	139	152	158	151	6 54	193	16 26	118	14
70	51	74	109	109	111	149	137	137	156	6 46	249	15 30	45	15
138	127	121	130	122	134	142	143	152	126	19 18	159	11 42	94	16
150	147	135	144	152	159	161	154	157	165	5 58	204	17 14	131	17
158	150	158	154	149	151	157	161	162	171	8 26	212	16 18	144	18
178	168	157	159	158	159	171	177	175	182	6 40	217	17 42	155	19
169	160	166	169	183	173	166	172	171	179	5 10	202	15 26	155	20
125	131	142	169	166	158	152	149	157	155	4 48	196	12 2	111	21
154	147	153	160	166	170	167	165	165	171	6 4	213	15 58	145	22
157	162	170	178	175	167	174	180	178	191	6 6	244	14 42	153	23
176	170	177	166	169	175	184	177	176	186	5 50	235	13 44	154	24
168	163	173	176	171	173	175	175	178	188	6 50	231	15 30	151	25
183	180	184	184	188	191	187	185	195	195	6 22	234	16 6	179	26
190	191	192	182	177	174	180	187	187	199	7 38	239	19 40	170	27
198	193	186	180	184	183	183	191	193	204	7 20	251	18 6	177	28
176	173	183	184	183	185	183	182	183	186	7 8	216	12 20	171	29
192	185	181	183	187	190	190	192	189	197	5 30	227	16 40	180	30†
193	191	193	193	195	195	195	201	210	**206**	5 50	251	0 30	190	31†
159	**157**	157	162	164	165	167	167	170	176					Mean.
185	183	183	184	185	186	185	189	189	195					Mean.†

APRIL.

197	195	189	190	196	201	197	197	195	213	5 8	277	17 16	187	1
196	198	200	200	196	195	191	200	198	213	5 40	250	21 8	186	2
177	177	177	182	180	182	186	188	191	202	6 4	253	16 44	174	3
180	176	178	187	191	190	189	190	194	206	6 38	279	13 40	166	4
188	187	189	184	183	182	182	186	185	206	5 44	264	19 10	179	5
198	198	196	195	197	196	197	197	197	208	5 38	245	18 14	193	6
200	201	197	200	200	197	196	202	203	214	4 50	253	21 2	194	7
198	195	193	191	190	191	191	192	193	209	6 4	253	12 28	189	8
203	200	199	199	200	220	199	199	200	215	6 46	257	16 18	199	9†
186	190	196	198	196	198	200	197	195	215	6 56	268	14 30	182	10
207	207	212	205	210	208	209	215	214	**226**	6 34	271	0 0	200	11
207	204	200	203	203	203	200	206	209	225	6 30	277	17 30	199	12
193	190	199	193	190	192	198	196	196	213	6 10	262	16 2	188	13
209	205	202	199	201	203	210	213	213	225	7 14	**278**	17 54	198	14†
225	226	223	212	208	206	197	204	204	225	6 50	264	20 52	189	15
167	159	143	**141**	170	179	173	170	174	**180**	6 32	219	17 42	**133**	16
175	177	173	175	181	184	179	195	193	186	5 54	218	2 14	161	17
189	187	188	193	191	187	185	181	184	195	6 24	228	2 4	179	18
185	185	189	185	185	188	187	186	186	200	6 32	242	16 10	182	19
193	190	190	190	190	190	190	189	192	201	6 32	241	1 28	182	20†
183	183	183	184	183	183	183	189	187	194	5 4	219	13 58	181	21
190	190	190	190	190	190	190	190	191	195	6 9	220	19 18	179	22
196	196	195	195	195	195	199	199	199	208	5 58	242	18 31	188	23†
200	201	199	199	199	196	196	198	199	211	6 24	255	18 38	193	24†
205	204	199	199	205	201	198	195	195	214	5 42	257	20 28	192	25
200	202	202	202	202	200	198	199	201	218	6 8	267	21 42	192	26
203	204	205	207	211	211	208	205	203	220	6 32	275	12 50	192	27
179	189	189	192	193	193	197	199	197	216	5 28	275	14 31	171	28
186	183	181	181	189	186	193	193	194	204	5 16	256	17 46	173	29
194	207	194	191	193	198	202	206	205	205	8 4	243	19 54	182	30
194	193	**192**	192	194	195	194	196	196	209					Mean.
200	198	197	197	197	201	199	200	201	212					Mean.†

*See footnote on page 101.

†Five international quiet days.

(Averages for periods of sixty minutes centred at the full hours of Greenwich mean time.)

MAY. 37000γ PLUS TABULAR QUANTITIES.

Date.	Hours (G. M. T.)														
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	205	215	212	221	235	247	256	259	255	244	241	232	224	228	221
2	205	207	204	211	218	224	231	229	229	229	215	216	212	208	203
3	206	206	204	219	224	234	241	242	235	231	233	225	208	196	203
4	201	201	204	208	222	233	237	243	239	221	220	216	212	209	205
5†	204	205	204	213	223	235	240	234	229	223	216	203	194	191	192
6	203	205	212	221	240	260	279	274	263	247	235	220	210	208	209
7	205	208	214	223	235	248	258	259	248	235	226	216	203	202	201
8	200	205	215	231	247	261	265	264	258	247	236	223	209	207	197
9	201	203	208	219	236	248	246	244	237	225	221	219	213	207	203
10†	206	208	217	231	249	259	266	261	256	249	238	223	216	212	209
11	213	219	229	238	249	264	270	271	268	259	244	229	220	217	213
12	211	208	211	223	239	251	262	269	266	247	233	217	211	205	199
13	202	206	214	220	228	233	226	221	217	224	201	189	187	160	163
14	183	183	188	199	212	220	222	220	222	222	216	214	210	191	184
15	191	186	197	207	214	228	235	233	227	233	205	198	208	206	191
16	188	191	198	195	206	219	227	232	226	217	207	193	183	194	193
17	198	195	200	201	212	220	222	221	225	222	211	203	192	194	188
18†	195	196	202	213	227	246	257	255	247	237	225	210	201	197	196
19	200	202	206	211	223	231	234	228	222	213	208	200	195	191	192
20	194	200	208	214	223	226	234	232	232	222	211	206	198	193	193
21†	213	214	215	222	231	241	247	252	253	248	238	225	215	210	208
22†	211	213	222	227	234	241	242	239	231	223	217	215	215	217	216
23	215	217	226	231	231	242	241	219	202	172	152	**149**	155	162	168
24	183	191	203	217	225	233	241	247	240	231	218	206	200	200	200
25	195	202	194	199	195	200	203	204	210	210	207	198	191	191	186
26	196	195	197	205	215	225	237	238	235	225	210	200	197	201	197
27	200	205	209	224	239	234	234	238	236	229	223	212	203	196	202
28	219	226	242	247	260	279	**295**	295	279	254	242	235	205	184	197
29	218	223	227	241	252	251	250	239	233	230	224	219	211	208	205
30	219	220	226	234	247	258	259	258	250	230	223	227	220	213	211
31	212	218	231	244	253	263	267	261	251	228	226	218	204	197	206
Mean .	203	206	211	219	231	240	**246**	245	239	230	220	211	204	200	199
Mean† .	206	207	212	221	233	244	**250**	248	243	236	227	215	208	205	**204**

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1	216	221	227	237	250	261	266	269	266	259	250	237	220	208	216
2	214	214	220	227	237	236	228	238	239	231	226	220	211	206	205
3	208	213	222	232	240	248	253	254	251	245	236	228	218	211	208
4†	211	214	223	238	251	255	261	260	255	250	241	231	224	218	217
5†	213	218	229	248	260	266	273	268	264	257	246	234	224	216	214
6	222	225	233	245	258	269	274	274	276	267	258	241	228	228	228
7	224	225	226	231	239	249	253	249	239	226	212	203	199	199	203
8	215	218	228	247	272	282	285	282	273	265	252	238	226	222	221
9	213	213	219	231	247	256	263	257	256	250	235	224	223	224	215
10	213	211	219	237	249	257	250	233	231	222	215	205	191	191	181
11	191	200	208	216	215	221	220	217	225	222	216	203	189	197	198
12	195	199	202	212	223	239	251	253	249	236	228	218	208	207	202
13	203	205	214	230	245	261	269	266	263	253	239	225	215	207	200
14†	209	211	213	228	243	263	273	273	265	258	248	235	224	216	216
15	213	215	226	239	248	260	267	259	250	239	231	225	219	216	213
16	207	209	211	216	219	220	218	217	215	216	215	210	209	204	199
17	212	215	218	227	233	245	255	260	261	255	252	236	225	224	222
18†	221	225	230	236	244	258	262	259	259	251	240	229	221	216	215
19	215	218	224	235	248	255	267	273	274	267	251	239	233	232	224
20	223	225	239	253	265	271	276	269	258	244	233	219	213	212	215
21	219	222	232	246	256	263	264	260	259	256	245	239	234	232	228
22	211	218	227	239	249	263	269	255	233	232	231	216	209	205	205
23	217	218	227	237	246	258	261	253	247	242	223	214	207	202	191
24	215	216	220	229	232	240	258	250	255	253	237	212	193	200	201
25	207	211	220	230	235	235	240	244	245	244	230	218	211	206	203
26†	209	214	222	231	239	249	255	259	259	249	238	226	218	214	211
27	215	215	222	239	259	278	**287**	286	281	269	257	244	235	226	224
28	209	212	218	225	233	254	263	257	255	243	217	195	178	171	165
29	193	195	198	208	222	204	237	236	231	222	219	215	212	209	207
30	219	219	225	235	246	259	269	265	259	249	228	211	193	176	165
Mean .	212	215	221	233	243	253	**259**	257	253	246	235	223	214	210	**207**
Mean† .	**213**	217	223	236	247	258	**265**	264	260	253	242	231	222	216	215

†Five international quiet days.

(Averages for periods of sixty minutes centred at the full hours of Greenwich mean time.)

MAY 37000γ PLUS TABULAR QUANTITIES.

Hours (G. M. T.)									Mean.*	Maximum.		Minimum.		Date.
15	16	17	18	19	20	21	22	23		Time.	Mag.	Time.	Mag.	
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H. M.	γ	H. M.	γ	
213	209	202	201	206	199	203	207	206	222	6 42	262	18 42	192	1
200	203	205	203	205	208	208	205	206	212	5 32	235	19 50	193	2
199	199	200	203	203	201	201	204	199	213	6 42	247	12 46	190	3
204	204	203	204	204	204	204	206	202	213	7 40	245	23 26	197	4
193	195	196	197	197	197	200	201	203	208	7 14	242	12 42	190	5†
206	204	205	208	209	207	208	208	205	223	6 8	281	19 38	197	6
201	197	200	201	199	197	204	204	200	216	7 8	261	16 14	197	7
197	197	199	198	201	200	209	202	201	220	6 40	267	12 58	196	8
202	202	202	204	205	204	206	207	207	216	5 0	250	20 18	198	9
213	216	215	216	215	216	214	215	213	227	6 12	266	19 40	203	10†
209	202	205	209	209	210	213	215	211	229	6 34	273	15 54	199	11
201	202	198	192	199	202	203	201	200	219	7 26	271	17 38	189	12
165	153	159	188	178	178	185	185	187	194	6 48	237	13 36	**140**	13
194	189	187	187	190	183	194	203	193	201	7 38	225	13 22	171	14
179	193	192	189	194	201	201	200	190	204	6 18	239	14 50	172	15
188	184	190	193	188	196	197	190	192	200	7 2	233	16 54	176	16
191	197	197	197	199	199	196	195	194	203	8 12	226	19 2	186	17
195	194	195	196	196	197	204	199	195	212	6 30	260	16 10	193	18†
191	191	191	189	193	207	198	195	193	204	6 16	236	18 2	188	19
191	196	204	207	209	210	209	206	208	210	5 48	237	19 6	188	20
208	211	211	212	211	213	212	212	211	222	7 44	255	22 26	204	21†
216	214	210	211	208	204	206	210	213	219	6 34	247	18 54	203	22†
171	171	173	175	178	180	181	180	180	**190**	5 40	250	10 40	147	23
196	194	195	195	196	195	192	191	189	208	6 54	248	0 0	182	24
179	169	181	185	185	188	186	189	189	193	8 40	211	15 58	167	25
197	193	195	197	198	195	193	195	198	206	6 30	241	20 40	184	26
205	206	209	212	212	215	219	218	216	217	6 46	240	20 48	192	27
207	208	203	203	207	211	211	211	214	**231**	6 34	**302**	12 54	181	28
205	199	206	214	216	214	217	217	217	222	4 44	261	16 4	196	29
203	205	212	210	210	207	215	213	210	224	5 18	266	15 22	196	30
207	208	210	210	208	214	213	213	213	224	6 26	270	12 42	193	31
198	197	198	200	201	202	203	203	202	213					Mean.
205	206	206	207	205	205	207	207	207	217					Mean.†

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214	214	213	213	212	216	215	213	211	230	6 34	271	12 56	206	1
206	202	207	204	205	206	205	204	205	216	4 18	244	16 22	200	2
210	211	212	211	210	214	216	215	210	224	6 58	257	21 14	203	3
216	211	213	213	212	211	209	209	211	227	6 0	264	19 8	208	4†
215	215	214	215	217	218	220	224	224	233	5 44	275	20 46	209	5†
229	231	234	232	233	227	230	230	227	**242**	7 56	278	18 34	215	6
208	210	211	213	213	210	212	215	217	220	6 26	258	12 44	197	7
211	218	214	209	215	215	214	218	225	236	5 42	287	17 34	205	8
214	213	210	211	209	211	220	217	214	227	5 38	265	17 38	207	9
187	188	204	206	193	199	200	198	195	211	5 36	268	13 48	177	10
200	205	210	206	200	202	200	201	198	207	8 12	227	11 46	185	11
204	208	208	203	209	204	202	203	201	215	6 42	256	23 36	198	12
205	201	204	206	206	207	207	208	209	223	6 24	270	14 2	198	13
214	211	211	210	210	211	212	213	214	229	6 20	277	19 2	204	14†
211	207	201	203	204	205	204	203	208	223	5 34	271	17 26	199	15
191	191	195	198	200	202	200	205	210	207	4 36	222	15 28	190	16
217	215	214	210	214	215	219	218	220	229	8 10	264	17 30	209	17
215	215	214	217	218	217	219	219	218	230	6 12	265	18 34	213	18†
224	222	224	227	230	236	236	231	222	238	7 46	276	0 10	215	19
216	216	215	216	214	213	217	217	218	231	6 6	278	12 34	211	20
225	219	218	217	211	212	213	213	211	233	5 54	268	23 50	211	21
207	203	200	201	215	206	215	213	213	222	6 2	271	17 22	198	22
196	189	200	199	209	208	212	231	223	221	6 10	264	15 48	183	23
196	197	205	205	204	206	207	211	210	219	6 16	263	12 10	188	24
208	208	208	208	209	209	208	209	210	219	8 26	248	18 36	199	25
211	212	213	213	214	214	215	215	216	226	7 46	261	0 0	205	26†
223	219	219	218	214	215	212	209	208	236	5 42	**290**	22 28	207	27
158	**157**	163	162	176	184	184	189	192	**203**	6 34	265	15 42	**155**	28
208	211	211	211	213	214	219	221	218	214	7 42	238	0 10	192	29
180	179	185	191	190	192	190	206	208	214	6 10	273	14 12	163	30
207	207	208	208	209	210	211	213	212	223					Mean.
214	213	213	213	214	214	215	216	216	229					Mean.†

*See footnote on page 101.

†Five international quiet days.

JULY. (Averages for periods of sixty minutes centred at the full hours of Greenwich mean time.) 37000γ PLUS TABULAR QUANTITIES.

Date.	Hours. (G. M. T.) 0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	201	205	205	199	204	219	222	230	233	230	224	210	196	190	195
2	220	223	232	244	257	264	264	262	266	267	256	238	220	210	208
3	214	219	231	246	261	288	299	**303**	298	282	266	249	239	231	228
4	233	236	243	249	255	260	265	256	247	234	225	215	206	201	203
5	210	217	232	253	269	279	285	282	274	266	261	254	257	257	264
6	197	209	218	233	238	245	233	233	226	207	210	209	203	198	196
7	202	205	215	224	229	245	244	239	235	231	228	216	212	206	202
8	206	208	213	223	238	249	261	267	264	255	244	236	227	214	211
9†	208	210	217	235	250	264	267	267	262	249	231	220	221	216	212
10	215	211	218	227	240	249	252	236	217	206	291	286	191	198	195
11	179	193	210	206	215	228	235	233	241	243	225	196	188	185	186
12	187	192	199	211	223	238	248	248	243	236	225	212	201	198	197
13†	195	197	205	219	235	249	257	253	248	240	231	218	208	201	201
14	203	206	215	227	243	251	261	260	257	259	245	229	219	218	217
15	184	179	188	175	170	182	169	172	183	183	180	176	171	174	177
16	198	189	192	194	204	215	227	228	210	198	193	170	132	113	98
17	172	171	176	185	196	201	203	199	191	194	193	183	159	134	169
18	188	192	199	211	225	240	247	246	243	235	220	206	196	190	186
19†	197	199	201	210	221	228	237	244	247	237	225	214	205	202	202
20	210	210	214	223	233	245	256	260	247	223	208	202	198	195	191
21	211	215	219	234	266	286	287	280	273	262	241	230	213	192	201
22	208	209	210	219	221	231	236	238	240	220	211	207	199	202	209
23	208	206	211	220	227	235	240	242	234	232	225	214	208	209	210
24	213	213	220	231	239	248	248	249	243	235	222	209	204	206	210
25	207	207	205	205	210	215	220	231	230	222	213	203	193	194	195
26	213	211	211	214	224	236	241	241	239	231	224	220	215	209	208
27	214	213	214	223	235	246	256	264	259	253	238	218	207	205	207
28†	213	213	220	233	248	259	264	263	259	252	241	232	224	217	216
29†	223	222	224	235	255	270	275	277	275	266	255	239	233	227	223
30	228	230	237	249	258	268	273	277	277	268	258	246	237	234	230
31	223	223	231	249	258	272	279	279	274	261	249	237	225	219	215
Mean . .	206	207	214	223	234	245	**250**	250	246	238	231	219	206	**201**	202
Mean† . .	**207**	208	213	226	242	254	260	**261**	258	249	237	225	18	213	211

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1	233	246	227	230	225	235	248	255	254	239	235	235	238	201	170
2	190	185	179	186	189	212	206	205	217	216	209	202	193	192	189
3	196	198	198	206	221	234	237	234	225	221	219	211	205	205	205
4	205	205	204	209	212	212	216	225	228	228	218	212	209	212	211
5	200	193	196	215	224	238	245	237	234	229	220	208	204	202	193
6	208	208	211	216	223	234	238	238	237	234	225	222	222	222	217
7†	215	213	213	224	237	251	263	271	262	251	245	235	229	223	217
8†	216	217	221	222	229	239	251	257	256	248	241	235	229	225	220
9†	220	220	225	236	247	263	276	280	282	273	258	242	231	228	225
10	232	235	239	247	262	274	285	289	284	274	265	257	247	243	241
11	252	263	273	274	296	312	**316**	298	281	273	270	259	247	248	236
12	215	216	214	217	227	235	239	235	233	233	231	225	218	223	219
13	217	216	215	220	230	245	250	243	243	240	231	226	225	220	218
14	215	216	219	224	233	245	249	253	251	245	237	232	233	245	227
15	176	173	167	162	155	180	178	194	200	196	187	193	196	196	187
16	197	197	195	193	200	207	209	202	209	201	192	198	190	194	194
17	206	206	207	216	226	236	243	248	244	240	227	224	217	213	208
18	212	213	213	213	213	223	223	233	234	232	209	185	195	192	190
19	205	202	203	209	227	239	255	262	263	256	237	225	215	186	191
20	200	196	191	195	204	219	229	235	238	232	217	208	205	205	205
21	209	208	209	209	227	248	265	264	251	240	225	207	199	201	202
22	209	209	211	219	238	258	270	274	280	262	243	229	221	216	213
23	214	213	213	222	238	257	269	272	268	255	237	224	219	221	218
24	224	224	224	234	252	255	256	256	257	249	237	229	221	213	210
25†	222	221	216	215	225	240	250	255	257	249	240	234	229	226	225
26	227	229	235	248	271	288	297	294	286	275	261	248	240	237	237
27	225	226	225	233	248	261	267	275	270	266	254	237	230	222	216
28†	222	223	226	231	242	255	263	270	272	267	261	253	240	228	224
29	232	234	233	237	243	254	264	265	265	262	261	249	240	234	233
30	228	228	232	241	261	267	264	264	256	250	244	239	234	229	228
31	228	229	221	221	222	241	254	256	258	256	251	243	239	243	235
Mean . .	215	215	215	220	231	244	251	**253**	251	245	235	227	221	217	213
Mean† . .	223	**219**	220	225	236	250	261	**267**	266	258	249	240	232	225	222

†Five international quiet days.

JULY. (Averages for periods of sixty minutes centred at the full hours of Greenwich mean time.) 37000γ PLUS TABULAR QUANTITIES.

Hours (G. M. T.)									Mean.*	Maximum.		Minimum.		Date.
15	16	17	18	19	20	21	22	23		Time.	Mag.	Time.	Mag.	
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H. M.	γ	H. M.	γ	
197	200	200	200	205	208	214	221	221	210	7 28	237	12 35	186	1
212	213	213	214	217	218	219	220	216	232	8 50	269	13 10	206	2
225	229	231	229	224	215	223	227	230	**246**	6 58	**305**	0 12	211	3
204	205	207	209	210	208	208	209	209	225	6 10	268	13 34	200	4
259	226	193	198	201	188	187	192	185	237	6 2	286	16 54	181	5
195	198	200	199	201	203	203	202	201	211	5 2	253	14 38	192	6
201	201	203	209	208	206	204	203	205	216	5 8	249	18 40	198	7
210	208	209	210	212	209	207	208	207	225	6 44	270	22 12	201	8
212	212	210	209	213	215	211	212	215	227	5 44	271	0 30	207	9†
182	194	171	177	190	183	184	181	171	210	5 36	256	17 12	152	10
187	188	186	185	187	187	186	188	190	202	8 34	245	0 2	178	11
198	198	196	197	198	196	194	197	197	210	6 34	249	0 0	186	12
201	201	201	202	204	204	203	200	204	216	5 48	260	0 10	195	13†
214	211	235	223	197	212	201	193	194	224	8 42	265	19 20	191	14
179	184	172	183	181	172	167	170	171	177	18 4	193	6 34	160	15
97	101	118	123	134	169	160	166	171	**166**	6 58	235	14 52	**89**	16
178	182	179	178	181	182	184	186	187	182	5 20	213	12 52	125	17
199	193	193	194	193	193	194	196	196	207	6 18	251	13 30	182	18
203	203	203	203	203	203	204	209	212	213	7 38	248	0 10	196	19†
182	197	205	207	207	206	205	206	209	214	7 2	264	14 40	179	20
201	201	203	204	205	205	205	206	208	227	6 20	292	13 0	189	21
209	207	207	205	212	207	207	206	206	214	8 20	242	12 12	197	22
209	206	209	211	211	212	213	214	213	218	6 54	244	0 40	204	23
211	209	208	205	213	206	202	199	208	219	5 16	251	18 2	197	24
195	203	203	205	206	207	207	211	210	209	7 28	234	14 40	191	25
208	212	211	208	208	210	210	210	212	218	6 40	243	13 26	206	26
207	208	207	208	211	211	212	212	213	223	7 8	266	13 22	201	27
214	216	216	218	220	223	224	225	224	231	6 38	267	15 0	213	28†
223	224	225	227	227	227	225	224	228	239	7 34	278	13 40	221	29†
223	223	223	222	230	232	225	226	228	242	7 24	280	18 22	221	30
213	215	218	218	220	221	233	249	245	239	6 32	282	15 26	213	31
202	202	202	203	204	205	204	205	206	217					Mean.
211	211	211	212	213	214	213	214	217	225					Mean.†

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150	145	165	167	164	177	189	186	176	208	6 32	268	16 2	138	1
188	190	188	190	192	192	193	199	195	196	5 16	224	3 38	173	2
202	201	201	199	204	203	203	206	205	210	5 50	239	2 2	196	3
209	211	213	209	211	210	200	200	199	211	7 26	230	21 26	195	4
196	199	199	203	198	199	201	203	208	211	6 2	247	2 8	190	5
214	212	213	216	218	215	214	212	213	220	7 26	240	0 0	207	6
212	211	211	215	214	213	213	215	214	228	6 54	273	17 10	211	7†
218	217	217	218	218	218	219	220	220	228	7 34	259	15 50	215	8†
224	224	225	225	225	224	225	227	229	239	7 52	285	1 2	218	9†
238	237	239	236	235	237	239	243	243	251	6 24	290	0 0	229	10
236	239	237	223	229	234	225	211	213	**255**	6 36	**325**	22 18	208	11
216	215	212	210	210	211	212	215	215	221	6 12	243	17 38	207	12
217	216	216	216	218	216	215	216	215	224	5 58	252	1 50	214	13
198	206	168	**110**	115	135	152	189	187	207	13 2	256	17 52	**97**	14
183	181	187	197	203	203	197	203	200	**188**	7 50	209	3 50	151	15
191	190	190	193	199	213	205	204	205	199	7 48	211	15 18	185	16
208	211	211	211	208	213	215	218	218	220	6 40	252	1 50	204	17
196	193	194	198	201	206	198	198	200	207	6 54	239	10 38	178	18
189	186	188	191	195	199	199	200	200	213	7 28	267	13 22	172	19
201	203	203	207	206	206	207	209	210	210	8 20	239	1 24	188	20
199	202	204	208	209	210	210	207	209	218	6 34	268	15 34	198	21
211	209	210	211	213	213	214	215	214	228	8 16	293	15 42	208	22
215	211	213	217	219	219	219	222	224	229	7 6	273	16 20	211	23
212	212	211	212	216	217	217	221	223	229	5 44	259	17 2	209	24
222	222	223	223	223	224	225	226	227	230	7 36	260	2 50	213	25†
241	249	250	247	245	244	242	241	236	253	6 6	299	0 34	224	26
213	220	218	220	221	217	219	223	223	235	6 44	276	14 54	212	27
224	224	224	224	223	225	225	227	231	238	7 34	275	0 16	222	28†
232	229	226	222	227	227	225	225	227	239	6 18	268	18 20	220	29
226	226	227	226	226	226	228	227	229	238	5 10	270	18 34	223	30
234	232	230	222	222	228	230	228	234	236	8 8	259	17 58	217	31
210	210	210	**209**	210	212	212	214	214	223					Mean.
220	220	220	221	221	221	221	223	224	233					Mean.†

*See footnote on page 101.
†Five international quiet days.

(Averages for periods of sixty minutes centred at the full hours of Greenwich mean time.)

SEPTEMBER. 37000 γ PLUS TABULAR QUANTITIES

Date.	Hours (G. M. T.).														
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	233	227	219	219	234	245	254	251	249	247	242	239	235	232	227
2	223	227	224	226	237	249	257	253	244	237	223	231	231	228	226
3†	224	225	225	225	236	249	255	255	249	239	235	233	234	232	229
4†	230	229	231	240	257	267	270	267	263	263	254	244	236	232	234
5†	227	225	224	229	244	261	270	273	271	260	249	242	238	237	236
6	235	233	229	234	241	245	252	257	257	255	254	251	241	233	232
7	247	248	250	259	260	238	224	230	248	226	186	280	297	196	189
8	206	205	201	211	227	245	249	249	242	233	225	218	216	213	210
9	211	211	211	218	227	246	257	259	255	259	264	251	238	229	213
10	220	213	215	228	237	257	235	224	205	183	161	160	175	185	190
11	200	200	205	218	233	238	246	238	211	189	195	203	189	171	195
12	196	198	199	204	215	220	213	208	209	215	216	202	208	215	206
13	214	209	195	202	205	219	238	239	238	229	219	198	182	191	198
14	210	209	212	207	208	214	198	203	216	203	181	180	194	189	162
15	204	194	186	191	205	217	229	238	229	223	205	188	195	200	199
16	207	206	199	199	213	223	227	236	238	227	215	206	203	197	198
17	215	211	205	201	207	222	228	230	233	228	222	226	216	204	208
18	217	215	207	202	209	226	238	240	233	228	221	215	209	207	199
19†	216	211	206	204	212	233	239	236	233	234	235	228	221	221	220
20	220	222	223	229	242	255	261	261	255	247	245	231	232	239	239
21	227	221	233	249	271	285	291	293	289	284	273	257	236	221	216
22	228	218	216	217	208	221	215	199	191	196	173	146	**142**	142	171
23	191	190	191	190	194	213	224	232	233	234	222	212	209	198	203
24	212	210	203	201	210	231	242	250	254	249	244	235	228	221	216
25	218	217	207	209	221	241	258	259	259	251	239	234	230	211	193
26	218	220	218	222	232	249	262	265	263	245	219	218	223	223	215
27	223	229	231	227	225	237	253	258	259	254	232	194	174	177	168
28	209	207	206	209	219	231	245	246	241	237	228	220	218	219	217
29†	218	217	213	218	230	243	254	254	249	239	225	221	225	225	227
30	229	230	236	253	276	292	303	**305**	295	274	256	250	245	229	217
Mean . .	218	216	214	218	228	240	246	**247**	244	236	226	221	217	211	209
Mean† . .	223	221	**220**	223	236	251	**258**	257	253	247	239	234	231	230	229

OCTOBER.

1†	227	226	225	228	239	248	256	259	251	241	237	232	230	229	227
2†	225	227	229	236	248	267	278	283	277	265	251	241	236	235	235
3	235	237	243	242	247	253	261	265	262	251	241	236	233	233	229
4	233	230	224	222	232	248	269	284	280	271	244	227	226	228	229
5	231	223	217	219	226	238	249	257	252	235	219	219	222	226	226
6	225	229	234	245	261	268	272	280	270	253	235	225	225	225	225
7	230	232	232	235	247	262	273	**289**	289	275	252	210	171	118	130
8	183	179	182	198	204	193	185	199	202	193	186	161	139	171	178
9	209	198	197	207	217	230	238	236	227	208	187	172	160	153	155
10	197	197	204	215	224	231	225	219	207	199	188	197	199	201	203
11	208	210	211	209	218	234	251	250	239	232	223	222	221	220	217
12	216	217	217	208	224	234	245	245	230	225	219	209	189	181	172
13	205	201	203	202	206	218	220	221	221	208	189	180	168	174	184
14	210	208	204	208	221	229	237	240	234	232	230	224	219	216	207
15†	213	212	213	219	235	253	259	256	243	226	212	202	203	203	203
16	223	224	222	231	239	242	249	253	244	238	230	231	224	204	186
17	158	161	166	177	170	173	187	208	227	228	207	203	202	204	208
18	182	184	191	203	201	205	217	223	216	199	190	176	164	158	162
19	207	194	177	182	179	180	186	182	163	155	155	153	168	173	166
20	205	208	209	222	236	244	248	259	249	232	220	212	204	194	191
21	208	206	210	222	233	246	253	257	249	232	223	219	211	207	206
22	213	217	222	231	250	265	277	278	271	250	232	224	213	201	205
23	214	220	226	239	248	259	265	269	259	239	229	226	225	224	226
24	228	220	226	236	250	256	263	272	263	250	229	209	199	210	208
25	225	221	224	228	234	246	254	255	247	240	235	231	227	225	220
26†	225	227	231	239	246	255	261	263	261	253	246	239	236	231	230
27†	230	230	231	235	244	255	265	267	253	250	243	240	237	235	233
28	234	236	239	246	256	264	275	277	268	257	251	248	245	245	245
29	233	249	247	239	255	265	265	265	250	236	227	223	221	213	218
30	227	230	240	255	269	288	284	275	270	259	254	255	241	174	159
31	211	209	213	219	227	229	227	227	217	216	217	217	221	219	216
Mean . .	215	215	217	223	232	241	248	**252**	245	234	223	215	209	204	**203**
Mean† . .	224	224	226	231	242	256	264	**265**	257	247	238	231	228	227	226

†Five international quiet days.

(Averages for periods of sixty minutes centred at the full hours of Greenwich mean time.)

SEPTEMBER. 37000γ PLUS TABULAR QUANTITIES.

Hours.									*Mean.	Maximum.		Minimum.		Date.
15	16	17	18	19	20	21	22	23		Time.	Mag.	Time.	Mag.	
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H. M.	γ	H. M.	γ	
225	226	224	224	226	222	220	224	224	232	6 6	258	2 30	216	1
223	223	224	224	227	229	226	227	224	231	6 36	259	0 22	217	2
226	227	228	229	229	229	231	231	232	234	6 0	257	1 4	224	3†
230	229	229	228	227	229	230	229	229	241	6 4	271	18 24	227	4†
233	231	231	235	235	235	233	234	235	241	6 46	275	1 42	224	5†
233	232	231	233	235	236	232	228	232	240	7 18	259	1 54	228	6
183	197	199	185	184	188	199	200	203	221	4 20	265	10 28	169	7
208	208	209	212	212	212	210	215	213	219	6 18	252	1 46	199	8
221	225	226	227	222	224	222	222	227	232	9 20	271	0 20	208	9
188	185	181	205	190	199	204	197	204	201	5 8	264	10 28	253	10
180	182	180	186	194	198	205	200	200	202	6 24	250	12 56	169	11
207	208	191	184	193	199	197	191	207	205	5 22	225	18 16	182	12
196	191	191	192	200	200	203	206	207	207	7 44	243	12 28	176	13
158	173	195	196	186	204	199	198	206	196	8 16	220	14 28	151	14
205	214	212	207	213	208	212	210	209	208	6 58	241	1 34	180	15
199	208	197	203	211	210	206	209	214	211	8 10	240	15 2	193	16
207	208	209	210	208	210	213	210	214	214	7 42	235	13 18	198	17
200	204	203	199	201	203	206	208	216	213	6 34	243	14 26	198	18
220	218	218	219	220	222	221	221	221	222	5 44	240	2 48	203	19†
235	229	228	227	227	228	226	224	226	235	6 36	263	0 0	219	20
215	207	195	197	215	218	215	235	228	241	6 26	294	17 46	187	21
171	179	200	179	280	182	185	189	191	**192**	0 0	229	12 10	**140**	22
196	198	207	205	207	207	207	211	212	208	7 53	236	1 4	189	23
212	210	210	214	217	217	216	216	217	222	7 50	256	2 50	199	24
202	211	213	212	211	215	219	217	223	224	7 18	261	13 50	190	25
208	214	214	212	209	209	214	221	220	226	7 38	266	14 58	205	26
169	196	204	203	203	208	214	205	208	214	6 52	264	14 50	158	27
211	212	213	214	217	217	217	217	217	221	6 26	251	1 55	204	28
222	221	221	221	222	222	223	227	228	228	6 28	257	2 28	212	29†
205	211	215	219	219	221	221	222	225	**244**	6 34	**307**	14 58	201	30
206	209	210	210	215	213	214	215	217	221					Mean.
226	225	225	226	227	227	228	229	229	233					Mean.†

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224	221	221	223	225	223	228	228	227	232	6 54	261	20 13	220	1†
231	228	228	226	225	221	220	229	236	241	6 50	284	21 4	221	2†
225	223	223	227	221	225	227	228	227	237	6 48	268	16 16	220	3
220	214	215	211	223	228	221	227	232	235	7 10	289	18 10	209	4
223	221	222	221	222	223	226	226	223	228	6 38	258	2 26	216	5
226	225	223	224	225	225	225	227	228	238	6 38	283	18 4	222	6
168	175	176	190	207	197	175	171	171	211	7 52	**295**	13 18	111	7
192	181	178	196	209	204	217	208	209	190	3 48	216	11 54	130	8
191	183	188	195	212	217	205	200	203	199	6 23	241	13 22	144	9
203	200	206	209	203	212	214	210	209	207	5 8	236	10 0	181	10
213	209	206	209	209	215	215	214	216	220	6 14	254	1 40	204	11
174	174	179	186	201	198	199	203	204	206	6 24	249	14 14	171	12
184	181	194	191	197	202	210	207	210	199	6 18	225	11 42	164	13
203	197	203	206	207	208	211	209	212	216	7 4	242	15 44	196	14
203	199	204	209	211	213	214	220	221	219	6 18	261	11 50	198	15†
206	208	179	140	141	**101**	142	159	159	202	6 54	255	19 28	**91**	16
207	207	213	199	182	199	171	178	190	193	7 40	251	1 14	157	17
158	153	164	191	190	188	199	205	214	189	6 36	225	16 28	148	18
173	164	177	174	182	196	193	194	199	**178**	0 0	212	10 50	149	19
186	199	191	206	200	199	204	204	205	214	6 50	261	14 56	178	20
209	206	207	208	209	212	214	215	213	220	6 48	259	13 30	203	21
211	213	216	216	220	217	231	228	216	230	6 16	281	13 2	197	22
224	220	210	216	214	219	221	222	216	231	6 46	271	16 54	206	23
209	202	202	203	212	232	233	217	217	227	6 48	275	12 2	195	24
215	213	215	218	221	225	232	231	227	230	6 18	258	16 18	211	25
228	226	227	229	230	230	230	230	230	238	6 56	264	0 8	223	26†
231	229	227	228	230	230	233	230	231	238	6 38	270	18 2	222	27†
240	236	237	237	243	244	244	243	246	**248**	6 34	278	0 4	231	28
216	218	218	226	233	237	237	231	228	235	6 28	270	13 16	210	29
174	186	200	192	204	195	203	214	212	227	5 20	292	13 22	142	30
212	213	213	225	227	217	213	216	214	218	4 32	236	1 26	203	31
206	204	205	207	211	211	215	214	214	219					Mean.
223	**221**	221	223	224	223	225	227	229	234					Mean.†

*See footnote on page 101.

†Five international quiet days.

(Averages for periods of sixty minutes centred at the full hours of Greenwich mean time.)

NOVEMBER. 37000γ PLUS TABULAR QUANTITIES.

Date.	Hours (G. M. T.)														
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	220	229	236	239	242	246	268	273	264	276	262	269	245	233	225
2	203	207	217	227	237	245	253	241	221	201	196	199	199	201	193
3	214	231	249	245	218	209	207	174	151	145	102	92	132	124	118
4	179	182	182	188	198	223	233	241	225	215	209	193	196	192	183
5	190	196	200	210	219	228	235	243	243	230	225	203	184	195	187
6	199	205	206	216	230	240	237	233	224	207	187	183	191	186	185
7	206	204	207	217	225	227	239	229	218	217	217	204	177	190	195
8	198	202	204	208	218	230	234	226	215	205	214	219	215	214	215
9	248	250	241	245	254	263	262	257	254	249	242	239	212	181	166
10†	203	203	209	217	229	242	249	251	248	238	229	224	216	215	212
11†	220	222	224	222	231	243	249	253	246	231	225	220	224	224	223
12	229	232	237	245	254	267	276	276	269	258	248	244	241	237	235
13	216	221	230	241	258	264	267	266	259	246	235	226	220	221	218
14	214	217	227	240	253	265	269	259	249	243	246	235	225	218	209
15	218	224	229	244	253	268	258	242	233	217	205	214	209	207	206
16	227	226	235	243	250	253	253	232	215	202	194	170	140	136	141
17	184	190	202	217	229	231	229	220	211	207	207	212	210	207	202
18†	210	213	217	223	229	231	243	245	237	229	221	210	205	209	204
19	215	219	226	235	246	253	260	259	246	235	229	226	216	204	198
20	228	233	234	238	241	251	264	264	258	246	237	234	235	224	202
21	194	201	221	238	249	249	253	252	245	238	227	218	221	235	230
22	225	226	237	251	260	273	283	286	274	259	248	239	231	235	234
23	226	229	236	244	254	266	272	272	263	251	242	238	235	233	232
24†	229	233	237	240	248	252	255	254	251	247	242	237	237	240	238
25†	238	240	247	256	259	264	272	272	263	252	244	235	228	226	225
26	244	243	250	261	273	283	290	284	284	282	276	263	249	249	245
27	239	232	235	235	242	253	257	253	248	241	235	230	226	223	229
28	225	226	238	249	257	269	279	275	269	261	252	235	224	227	225
29	223	229	236	245	255	257	266	264	255	248	246	243	229	223	221
30	229	230	231	242	258	271	273	271	266	251	239	233	233	233	234
Mean . .	216	220	226	234	242	251	256	252	243	234	226	220	213	211	208
Mean† . .	220	222	227	232	239	246	254	255	249	240	232	225	222	223	220

DECEMBER.

1†	231	232	237	252	268	282	286	283	269	253	241	236	235	236	237
2†	239	244	256	270	280	293	302	297	280	261	249	241	240	238	239
3	241	242	247	261	275	290	301	303	289	274	262	246	237	236	238
4	178	175	179	183	195	200	197	181	161	147	146	143	134	128	130
5	200	198	200	201	195	193	209	210	188	158	148	132	137	129	120
6	188	196	187	194	189	200	205	209	189	172	160	149	147	144	134
7	181	189	195	202	217	223	228	231	214	194	188	195	191	180	162
8	203	208	210	205	212	221	219	223	224	221	215	209	198	189	180
9	205	207	209	213	213	218	219	218	212	212	210	206	206	209	210
10	220	216	221	225	228	242	256	266	264	254	243	235	229	217	200
11	222	222	225	233	245	246	247	244	237	221	213	210	211	207	207
12	202	212	209	218	216	226	230	226	221	212	209	204	200	193	202
13	212	213	221	223	229	235	239	233	222	213	212	214	212	209	207
14	225	228	229	234	237	247	254	251	244	239	240	238	237	232	232
15	231	236	242	250	254	260	267	265	257	247	238	226	224	218	210
16	237	243	250	263	275	276	283	281	271	253	233	217	192	161	127
17	169	187	201	220	232	250	267	269	261	244	226	226	233	224	218
18	183	191	200	211	216	225	232	227	223	215	210	204	204	196	194
19†	208	213	217	223	233	245	257	262	245	231	226	221	220	220	219
20†	218	222	228	232	240	255	267	267	261	249	238	231	227	225	226
21†	228	230	237	244	256	270	283	289	279	265	255	248	239	234	234
22	247	250	250	254	263	284	285	285	278	266	257	234	187	186	158
23	213	206	211	211	216	232	248	245	241	236	236	229	222	218	216
24	213	217	219	224	230	240	251	256	253	250	247	240	234	231	226
25	225	224	230	240	255	259	265	262	257	254	250	247	241	234	232
26	230	231	236	239	243	250	255	250	246	243	237	235	239	242	241
27	237	240	246	254	263	275	280	275	268	255	248	243	239	233	237
28	236	240	241	247	257	268	276	275	265	252	241	234	237	240	241
29	239	240	243	253	263	279	285	285	274	259	245	237	235	239	242
30	229	231	235	236	242	256	269	277	265	246	233	225	219	222	230
31	233	233	238	244	253	268	279	278	272	246	232	244	243	215	234
Mean . .	217	220	224	231	238	249	256	255	246	234	225	219	214	210	206
Mean† . .	225	228	235	244	255	269	279	279	267	252	242	235	232	231	231

†Five international quiet days.

(Averages for periods of sixty minutes centred at the full hours of Greenwich mean time.)

NOVEMBER. 37000γ PLUS TABULAR QUANTITIES.

Hours (G. M. T.)									*Mean.	Maximum.		Minimum.		Date.
15	16	17	18	19	20	21	22	23		Time.	Mag.	Time.	Mag.	
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H. M.	γ	H. M.	γ	
217	219	223	224	228	230	227	216	212	238	9 0	281	23 40	205	1
178	180	188	187	189	189	199	203	201	207	5 50	255	15 4	173	2
163	145	163	175	168	179	182	175	175	**172**	2 34	279	10 24	**83**	3
187	190	183	204	192	186	187	195	193	198	6 58	245	1 30	177	4
196	195	190	209	201	203	206	200	199	208	7 16	248	11 54	179	5
189	192	213	204	199	206	206	207	203	206	5 16	245	11 28	173	6
195	213	196	189	186	185	201	198	199	205	6 4	242	12 2	168	7
210	208	209	209	212	215	216	231	239	216	5 58	237	0 0	196	8
158	168	177	182	190	195	198	200	203	217	5 8	269	14 50	154	9
212	211	211	213	217	217	218	219	219	222	6 54	252	0 0	202	10†
223	222	223	226	227	227	226	226	227	229	7 14	254	0 4	219	11†
227	222	219	218	217	218	218	220	218	238	6 32	278	18 20	217	12
212	212	212	215	217	215	218	214	212	230	6 10	269	16 58	210	13
205	200	201	212	216	214	211	209	215	227	5 54	271	16 26	195	14
203	199	206	205	220	220	213	209	216	222	5 18	270	15 46	193	15
161	152	149	152	140	170	182	184	182	190	4 24	265	12 58	129	16
199	201	202	203	205	205	206	205	205	208	5 23	234	0 0	184	17
207	196	198	205	208	208	212	212	212	216	6 38	246	16 34	193	18†
207	208	211	215	218	218	219	226	225	226	6 34	262	13 48	195	19
183	173	157	148	149	159	171	182	189	212	6 22	265	18 28	144	20
223	220	226	225	205	223	223	224	224	228	5 52	254	0 39	184	21
232	222	211	214	215	223	223	224	223	240	6 48	289	16 50	205	22
228	227	224	224	224	228	227	227	228	239	6 38	274	17 10	223	23
231	225	226	232	242	239	237	237	238	240	5 46	256	16 30	223	24†
221	223	228	236	241	243	245	246	244	244	6 46	275	14 40	219	25†
240	244	244	246	241	252	242	242	240	**257**	5 52	**292**	14 40	235	26
224	213	211	221	221	217	221	234	229	232	6 4	261	15 18	205	27
222	224	225	219	230	230	222	224	225	239	6 12	281	18 10	215	28
218	223	225	224	234	226	225	225	227	236	6 16	268	15 34	216	29
225	216	224	225	223	224	234	238	232	239	5 40	276	16 28	208	30
207	**205**	206	209	209	212	214	215	215	223					Mean.
219	**215**	217	222	227	227	228	228	228	230					Mean.†

DECEMBER.

238	236	238	244	243	243	242	241	240	248	6 22	287	0 20	230	1†
233	228	227	229	236	241	239	237	238	**252**	6 16	303	16 34	225	2†
211	192	192	216	225	211	221	172	170	238	6 26	**304**	16 32	184	3
146	150	150	140	162	182	179	185	190	**166**	5 14	206	13 34	124	4
129	137	157	155	163	179	182	179	182	170	6 18	220	13 54	118	5
141	143	147	163	163	171	186	183	183	173	6 46	215	13 58	130	6
168	180	185	193	198	201	203	205	206	197	6 50	234	14 34	150	7
184	177	195	201	204	207	207	208	210	205	7 20	227	14 38	175	8
206	209	209	211	219	213	209	212	227	212	5 12	222	11 22	202	9
181	189	192	202	205	208	211	214	221	222	6 58	268	15 6	176	10
212	213	199	190	191	205	213	212	199	217	4 36	251	17 58	187	11
207	210	207	209	212	214	207	210	211	**211**	6 14	233	13 0	189	12
211	216	217	219	223	223	225	224	225	220	5 38	241	14 26	203	13
230	229	225	211	221	216	221	226	230	233	6 16	255	18 8	203	14
206	206	215	222	224	228	227	228	237	234	6 34	269	15 24	204	15
115	93	**84**	86	143	124	147	155	167	193	6 26	285	18 20	**76**	16
208	207	202	197	188	158	152	187	188	213	6 52	272	20 30	137	17
196	196	198	197	201	202	202	202	212	206	5 36	234	0 6	181	18
216	214	214	215	216	218	218	219	217	225	6 50	263	0 2	207	19†
226	225	225	227	224	228	229	229	229	235	6 24	269	0 12	215	20†
233	232	233	236	237	237	237	236	238	247	6 34	291	0 34	227	21†
135	165	161	137	179	179	199	207	211	218	6 42	291	18 2	127	22
211	208	215	221	217	208	201	210	217	220	5 54	251	1 2	205	23
223	216	216	222	226	229	225	236	235	232	6 36	258	0 7	212	24
230	230	227	222	228	224	234	232	229	239	5 40	267	18 7	219	25
239	235	233	233	236	243	241	233	234	239	5 58	258	0 16	228	26
238	232	224	223	229	232	232	233	234	245	6 16	282	17 52	219	27
236	226	219	228	231	229	235	245	239	243	6 26	277	17 28	217	28
236	234	237	235	239	237	233	233	234	247	5 44	287	23 52	227	29
223	217	225	230	232	234	235	233	234	237	7 0	279	12 28	215	30
232	241	237	236	222	221	222	220	220	241	6 36	283	14 34	215	31
203	203	203	205	211	211	213	214	216	222					Mean.
229	227	227	230	231	233	233	233	233	241					Mean.†

*See footnote on page 101.

†Five international quiet days.

(Averages for periods of sixty minutes centred at the full hours of Greenwich mean time.)

JANUARY. 17000 γ PLUS TABULAR QUANTITIES.

Date.	Hours. (G. M. T.)														
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1†	756	761	767	770	754	737	734	739	746	752	761	764	761	761	764
2	760	761	766	773	752	741	737	735	737	745	755	761	757	753	756
3	743	744	751	753	739	715	704	704	712	717	729	739	737	736	738
4	729	731	733	745	741	719	705	709	726	733	736	735	730	727	727
5	721	724	731	737	731	694	669	667	673	684	700	715	721	719	722
6	719	723	723	734	741	733	713	717	719	718	720	723	719	721	722
7	717	718	722	730	723	704	689	691	694	698	706	715	720	720	722
8	720	721	724	725	723	710	698	699	713	717	715	717	715	715	716
9	716	714	721	725	720	693	667	679	691	699	704	710	704	707	711
10	705	704	701	704	712	706	702	704	710	711	706	702	697	697	702
11	703	703	708	711	716	705	701	707	705	697	698	702	705	707	709
12	712	713	714	717	720	704	698	704	704	698	698	703	704	707	711
13	708	708	709	716	715	682	663	677	688	689	694	700	700	701	704
14	703	703	707	708	705	687	677	683	690	694	694	695	693	695	701
15	697	698	701	703	705	695	683	680	682	679	687	697	697	695	697
16	693	693	695	702	701	682	675	686	697	701	700	702	699	699	703
17†	709	710	710	709	704	688	676	673	700	697	707	712	708	706	708
18†	707	708	708	715	712	690	677	692	698	703	710	712	705	701	707
19†	716	717	715	726	733	723	711	715	720	720	726	731	731	728	729
20	725	726	731	740	744	723	697	702	714	719	724	725	722	722	725
21	723	725	727	732	727	711	691	695	709	722	732	743	740	735	737
22	733	735	737	741	745	734	717	723	728	725	724	725	729	733	738
23†	736	737	737	740	743	739	733	729	734	741	742	739	738	739	741
24	728	726	727	735	735	724	708	701	705	706	704	706	706	713	718
25	713	712	711	718	721	713	704	708	722	734	736	733	723	716	718
26	709	706	703	707	707	693	677	686	693	692	693	692	688	691	698
27	695	692	693	698	702	692	681	688	701	700	700	696	689	685	690
28	693	694	693	696	697	686	670	670	660	696	698	697	692	691	696
29	704	703	707	708	683	663	655	663	683	696	704	707	702	701	706
30	716	717	717	717	714	703	691	700	707	716	724	724	723	721	725
31	731	733	735	739	737	725	708	700	717	733	741	747	746	740	744
Mean .	717	718	720	725	723	707	694	698	706	711	715	718	716	715	719
Mean† .	725	726	727	732	729	715	706	710	720	723	729	732	728	727	730

FEBRUARY.

1	748	750	756	757	741	720	702	714	736	754	765	767	757	747	751
2	749	751	756	753	746	731	711	706	723	737	748	753	751	745	746
3†	743	745	752	754	738	718	702	697	702	712	726	734	734	732	733
4†	730	731	731	737	737	730	714	704	712	718	724	728	727	724	725
5†	718	717	719	730	736	718	689	674	680	694	704	705	701	696	699
6	697	697	698	700	697	697	665	658	671	676	681	683	683	683	687
7	689	686	684	690	693	687	674	677	684	686	687	693	696	691	694
8	701	699	701	703	708	703	687	694	703	709	708	705	701	702	703
9	706	707	706	711	713	709	703	673	691	691	691	700	701	701	704
10	710	711	712	713	712	704	692	691	686	683	698	708	710	707	710
11	716	716	718	724	727	720	706	700	699	703	704	710	713	713	717
12	724	727	729	735	735	724	709	706	710	713	717	708	704	730	732
13	727	728	730	733	729	718	706	697	699	705	711	712	711	710	715
14†	721	722	722	729	731	727	719	715	717	716	716	721	725	723	723
15†	727	729	730	732	727	720	719	705	709	713	714	715	715	715	718
16	715	716	717	723	723	716	706	706	709	711	711	710	710	711	711
17	707	704	705	709	703	702	697	698	700	699	700	699	696	701	699
18	706	706	706	714	722	725	716	713	711	708	709	711	711	711	714
19	714	712	713	716	720	720	716	714	716	720	724	729	732	732	734
20	742	743	743	746	747	744	737	731	731	736	741	746	752	751	750
21	749	747	751	753	752	743	729	725	732	739	741	741	739	737	739
22	733	733	734	739	738	728	718	711	713	711	713	712	720	720	722
23	723	722	723	727	724	714	708	711	714	725	728	726	722	721	723
24	725	727	729	730	726	721	718	715	719	719	720	717	715	715	719
25	721	721	723	727	725	714	704	705	708	712	718	722	719	715	718
26	726	727	732	734	727	713	704	703	716	722	726	725	719	714	716
27	714	716	718	718	713	694	693	688	693	697	702	705	706	702	701
28	701	702	701	699	696	685	687	689	696	702	706	708	716	721	721
Mean .	721	721	723	726	725	716	705	701	706	711	715	717	717	717	719
Mean† .	728	729	731	736	734	723	709	699	704	711	717	720	720	718	720

†Five international quiet days.

Averages for periods of sixty minutes centred at the full hours of Greenwich mean time.)

JANUARY. 17000 γ PLUS TABULAR QUANTITIES.

Hours (G. M. T.)									Mean.*	Maximum.		Minimum.		Date.
15	16	17	18	19	20	21	22	23		Time.	Mag.	Time.	Mag.	
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H. M.	γ	H. M.	γ	
763	762	763	763	763	762	761	761	762	**758**	2 48	773	6 34	733	1†
753	753	752	751	751	751	751	750	749	752	3 2	**775**	7 24	734	2
735	734	735	734	736	735	735	735	733	732	2 18	755	4 25	702	3
725	726	726	726	726	726	725	725	725	727	3 27	746	6 44	699	4
720	720	719	721	723	721	721	717	718	712	3 10	741	6 12	664	5
720	720	721	718	717	717	717	716	717	721	4 6	741	6 14	711	6
720	719	720	720	719	719	719	719	718	714	3 16	732	6 14	687	7
714	712	713	714	713	712	711	710	704	714	2 32	727	5 32	697	8
709	709	709	707	708	708	706	703	701	705	3 2	727	6 51	659	9
700	701	699	701	701	701	699	699	702	703	3 45	713	12 38	695	10
708	707	707	705	705	705	705	704	703	705	4 0	720	9 23	696	11
711	710	711	711	710	709	707	705	706	708	3 56	722	9 9	696	12
703	705	706	705	705	704	703	701	700	699	3 19	719	5 50	662	13
704	697	700	703	703	701	701	701	698	697	3 42	710	5 58	675	14
696	696	696	697	697	696	695	696	695	694	3 46	709	6 33	677	15
704	705	707	708	709	709	708	709	709	700	22 14	710	5 34	669	16
707	708	709	709	709	709	708	708	707	704	11 2	713	6 48	670	17†
710	712	714	717	718	719	720	721	722	709	23 58	723	5 38	673	18†
728	728	729	729	729	729	729	728	729	725	3 50	735	6 26	707	19†
725	725	725	725	725	727	727	727	726	724	3 46	747	5 59	694	20
736	736	738	739	738	737	737	736	737	729	11 8	745	6 11	683	21
740	738	738	741	741	741	742	740	738	735	4 22	748	6 12	715	22
737	734	734	735	733	732	730	730	729	736	3 51	744	7 32	729	23†
718	718	717	717	717	716	716	716	714	716	3 47	736	6 50	698	24
716	714	715	716	715	714	712	710	709	717	9 8	737	5 10	701	25
699	699	699	700	701	701	701	699	698	697	1 44	711	6 10	675	26
691	691	693	693	694	695	694	695	695	**693**	3 44	703	6 12	679	27
698	700	701	702	703	704	704	703	703	694	20 6	704	7 26	660	28
707	709	713	715	716	716	715	715	714	700	19 22	717	6 18	**653**	29
725	725	725	727	728	728	729	730	730	719	23 58	736	5 54	691	30
745	744	747	749	749	749	750	750	750	738	23 56	751	6 46	696	31
718	718	719	719	719	719	719	718	717	715					Mean.
729	729	730	731	730	730	730	730	729	726					Mean.†

FEBRUARY.

749	750	748	747	747	746	745	743	743	745	11 6	**769**	5 46	695	1
747	747	746	745	743	742	741	739	740	741	2 36	759	6 46	702	2
733	731	730	729	729	728	728	727	727	728	2 52	756	7 12	696	3†
725	721	719	720	719	718	717	716	716	722	3 10	739	6 55	702	4†
700	699	698	698	698	697	696	695	695	702	3 45	738	6 50	673	5†
687	688	685	685	685	683	683	682	678	**684**	2 44	701	6 52	**656**	6
695	696	698	699	698	698	697	697	696	691	19 43	700	6 32	668	7
703	702	706	708	709	702	702	701	701	703	20 6	711	6 18	687	8
703	705	710	710	711	707	706	705	706	704	3 35	715	9 45	687	9
712	711	712	714	714	714	714	714	714	707	3 6	716	8 16	683	10
719	718	722	723	723	723	722	722	723	716	3 54	728	7 36	698	11
733	731	731	732	732	731	731	729	729	724	4 1	737	6 34	702	12
718	717	720	722	723	722	721	721	721	717	3 2	734	7 33	696	13
724	724	723	725	727	727	727	727	727	723	3 44	732	7 20	714	14†
717	715	716	719	719	719	719	719	719	718	2 50	733	6 49	704	15†
709	707	708	707	708	708	709	711	706	711	3 18	725	6 28	704	16
705	705	706	709	707	706	705	702	705	703	17 37	720	6 59	692	17
713	712	713	714	714	713	713	713	714	713	4 12	734	9 38	706	18
735	733	734	738	740	740	739	736	738	727	20 20	741	7 34	711	19
750	751	751	753	753	752	751	751	750	**746**	18 27	754	7 57	729	20
739	739	738	739	740	739	739	737	735	740	2 46	755	6 40	721	21
723	725	721	723	724	725	725	722	720	723	3 16	741	7 12	709	22
723	724	725	728	728	728	727	726	726	723	2 46	729	6 42	705	23
720	721	721	723	724	723	723	722	721	721	2 40	731	11 22	714	24
720	721	723	724	726	723	723	722	724	719	2 56	728	6 22	702	25
717	717	716	717	717	717	715	716	715	719	2 54	736	6 40	699	26
705	707	709	711	713	709	717	710	711	706	2 6	720	6 38	685	27
714	719	725	723	723	724	724	723	723	710	17 18	730	5 26	683	28
719	719	720	721	721	720	720	719	719	717					Mean.
720	718	717	718	718	718	717	717	717	719					Mean.†

*The daily mean value of vertical force derived from 24 hourly values, has been corrected for progressive change by $\frac{1}{24}$th of the difference between the initial and terminal hours.

†Five international quiet days.

MARCH.

(Averages for periods of sixty minutes centred at the full hours of Greenwich mean time.)

17000 γ PLUS TABULAR QUANTITIES.

Date.	Hours. (G. M. T.)														
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	721	721	726	730	726	714	714	714	713	717	721	723	722	724	725
2	723	724	730	734	731	720	715	709	716	728	735	731	723	723	728
3	727	728	732	735	732	722	717	712	712	723	728	726	725	724	723
4†	727	728	729	731	730	719	714	716	719	721	720	721	719	724	728
5	730	734	735	723	708	705	714	724	729	733	733	722	716	714	721
6†	727	729	728	722	716	715	722	724	724	726	726	721	717	717	720
7	722	726	728	724	711	692	688	693	701	713	719	717	712	715	721
8	727	728	727	723	712	709	711	721	730	737	742	735	727	726	727
9	729	731	732	731	725	715	707	708	714	722	725	723	720	718	721
10†	722	725	727	722	714	698	685	686	694	705	707	709	713	712	712
11	716	719	723	723	716	704	703	710	717	717	715	717	714	715	715
12	716	719	732	732	735	730	719	724	728	732	725	723	717	721	726
13	731	731	724	713	702	700	706	707	719	727	727	725	722	726	729
14	736	735	736	740	738	732	727	733	742	751	753	748	743	738	737
15	746	749	747	740	730	713	712	715	725	736	745	748	741	736	740
16	745	749	753	749	743	735	732	734	734	732	731	736	740	734	738
17	744	743	743	740	738	731	720	713	717	721	726	726	724	726	729
18	731	732	734	729	715	705	697	702	706	714	720	721	721	723	723
19	719	721	726	725	713	700	696	697	704	712	710	707	707	708	708
20	711	714	721	723	716	709	703	701	709	709	714	711	710	711	713
21	712	715	715	713	701	696	699	710	725	729	729	731	732	726	735
22	740	742	741	740	737	734	732	737	741	741	741	738	739	746	747
23	751	754	753	751	746	733	732	736	747	758	761	756	750	749	752
24	753	755	755	749	739	734	732	737	745	751	750	750	749	747	749
25	748	749	751	749	747	740	735	735	742	746	749	750	745	742	742
26	738	741	746	744	737	727	720	718	719	719	730	734	731	729	731
27	734	734	742	744	740	723	705	703	716	723	727	728	726	721	721
28	722	725	728	723	711	701	695	693	704	710	707	705	704	704	704
29	703	706	711	707	701	695	689	686	692	697	698	699	701	701	697
30†	704	710	716	713	707	701	693	692	697	701	702	705	704	705	706
31†	708	711	716	712	709	706	699	704	717	727	732	735	735	738	737
Mean .	728	730	733	730	723	715	711	713	719	725	727	727	724	724	726
Mean† .	717	721	723	720	715	708	703	704	710	716	718	718	717	719	721

APRIL.

1	746	751	751	743	739	734	727	725	731	741	746	746	744	742	743
2	740	744	749	747	745	737	730	729	735	737	740	742	739	740	739
3	730	734	732	720	709	703	697	699	708	717	724	727	723	719	717
4	709	714	718	712	706	701	695	699	709	720	732	727	725	726	728
5	740	745	744	733	724	720	716	718	726	734	737	737	735	735	738
6	745	749	755	749	737	728	725	725	735	739	738	739	738	737	739
7	743	747	751	741	727	720	715	710	713	721	727	731	733	734	732
8	740	746	752	742	724	713	705	707	718	727	731	736	738	735	735
9†	742	745	752	753	748	737	722	714	725	737	747	748	742	736	734
10	736	741	741	733	721	706	696	696	710	722	735	742	742	734	729
11	733	738	736	724	714	707	703	704	708	715	722	725	725	722	722
12	724	729	732	727	715	700	697	697	707	719	729	735	737	736	735
13	746	750	762	759	749	732	721	726	736	746	752	755	753	753	753
14†	757	759	767	762	751	739	737	737	740	745	751	753	751	745	743
15	744	747	746	737	729	721	714	714	723	733	739	745	742	737	732
16	723	728	733	728	707	695	687	687	698	707	713	713	713	708	707
17	706	709	712	704	693	675	663	665	677	689	692	690	691	692	691
18	691	697	699	689	683	674	674	686	702	713	717	718	721	720	720
19	730	733	739	735	726	717	724	729	741	742	739	739	734	729	727
20†	734	741	739	724	707	706	707	708	715	725	729	727	723	723	725
21	733	733	729	719	713	711	712	722	729	734	736	733	728	724	725
22	728	733	730	716	706	696	697	703	713	721	725	727	730	731	730
23†	734	742	744	731	727	711	708	713	725	737	745	743	740	737	734
24†	738	743	743	729	709	699	702	706	724	738	745	741	736	733	732
25	745	751	756	745	731	723	722	726	733	742	744	747	743	736	734
26	742	747	748	738	723	701	699	707	721	733	742	744	740	732	730
27	751	755	755	747	735	716	711	713	725	740	749	750	744	738	737
28	745	752	755	751	741	730	724	730	743	758	761	756	747	735	733
29	738	741	745	735	720	714	714	718	729	736	737	740	736	727	724
30	728	734	726	714	704	694	695	698	707	712	714	716	716	715	712
Mean ‡ .	735	739	741	733	722	712	708	710	720	729	735	736	734	730	729
Mean† .	741	746	749	740	729	719	715	716	726	737	743	743	739	735	73

†Five international quiet days.

(Averages for periods of sixty minutes centred at the full hours of Greenwich mean time.)

MARCH. 17000 γ PLUS TABULAR QUANTITIES.

Hours. (G. M. T.)									Mean.*	Maximum.		Minimum.		Date.
15	16	17	18	19	20	21	22	23		Time.	Mag.	Time.	Mag.	
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H. M.	γ	H. M.	γ	
726	726	726	725	727	727	727	726	725	723	4 12	733	7 59	711	1
725	723	726	728	728	729	728	727	727	726	3 0	736	6 57	707	2
724	726	726	727	727	727	727	727	726	725	2 58	736	7 34	709	3
729	727	728	730	730	730	730	730	730	726	2 58	733	6 22	713	4†
723	722	723	726	726	725	725	725	725	723	1 34	737	5 12	704	5
719	718	718	720	720	719	719	719	719	721	1 20	731	5 6	714	6†
721	721	722	726	726	725	724	723	722	716	1 58	729	5 23	686	7
729	728	729	728	727	727	727	726	725	726	9 58	745	5 34	701	8
722	722	723	724	724	723	722	722	721	721	2 34	733	6 23	704	9
712	713	714	717	717	717	716	714	714	711	1 36	729	6 3	**683**	10†
720	722	721	720	720	720	719	714	715	717	16 32	725	4 24	700	11
727	728	730	732	731	728	730	727	726	727	3 54	740	13 21	715	12
729	732	735	736	736	735	**733**	733	732	725	19 2	736	5 33	694	13
738	737	740	744	745	746	745	743	743	741	9 54	755	5 48	726	14
740	740	742	745	744	747	747	745	743	738	11 38	753	5 30	710	15
741	745	745	743	744	743	743	742	741	741	1 38	755	9 36	729	16
731	732	732	732	733	733	733	732	732	730	0 40	745	6 55	710	17
722	723	722	724	723	721	721	721	721	719	1 38	735	6 14	696	18
708	710	711	713	713	712	710	709	710	710	2 22	728	6 2	695	19
716	717	716	742	718	719	717	714	714	715	2 58	725	6 57	698	20
739	740	742	744	744	744	742	740	740	727	17 55	747	4 44	692	21
746	749	750	751	752	753	754	753	751	744	21 44	759	6 4	729	22
752	754	756	758	758	757	756	756	756	**751**	9 50	**762**	5 26	729	23
751	751	752	753	753	752	752	751	750	748	2 2	756	5 58	730	24
743	744	745	746	745	745	744	743	743	744	10 11	750	6 46	**733**	25
735	735	737	739	738	738	737	737	735	733	2 2	747	7 4	717	26
723	724	726	729	728	725	724	724	724	725	3 10	746	6 37	700	27
705	706	708	709	707	707	707	703	705	708	1 40	729	6 26	691	28
699	702	703	704	705	705	705	704	704	**701**	1 58	711	6 46	684	29
707	710	711	713	714	714	713	712	712	707	2 6	717	6 36	690	30†
739	742	744	745	747	747	746	745	747	729	21 38	748	5 54	696	31†
727	728	729	731	731	730	**730**	729	728	726					Mean
721	722	723	725	**726**	725	725	724	725	719					Mean†

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744	746	747	748	748	747	746	746	745	743	1 42	754	6 50	723	1
739	740	742	742	743	743	741	739	737	740	2 13	750	6 51	725	2
718	718	719	721	721	719	718	716	715	717	1 18	736	6 28	696	3
728	736	740	743	742	743	743	740	741	725	17 44	745	6 16	693	4
740	742	744	746	746	745	745	744	743	737	1 32	748	6 22	714	5
740	742	742	743	743	743	743	742	743	740	1 58	755	6 42	721	6
734	736	738	740	741	741	741	739	740	733	1 54	751	7 38	709	7
737	739	740	741	741	740	739	739	738	733	1 50	755	6 2	704	8
735	736	737	738	738	739	738	738	739	738	2 28	753	6 52	712	9†
730	732	733	733	733	734	732	731	730	728	11 52	744	6 38	692	10
722	725	727	728	728	728	727	725	724	722	1 8	740	6 6	701	11
739	742	745	746	747	747	747	746	746	731	20 46	748	6 0	696	12
754	757	759	760	759	758	758	757	756	**751**	2 26	764	6 2	719	13
744	745	746	747	745	745	745	744	743	747	2 10	**767**	7 6	736	14†
732	734	736	737	736	736	735	731	728	733	10 58	756	6 20	712	15
708	711	713	712	712	711	710	708	708	710	1 42	734	7 5	684	16
694	694	695	697	697	698	697	695	695	**692**	1 58	714	6 22	**660**	17
723	727	729	730	732	733	732	732	732	712	23 58	735	5 10	672	18
731	734	735	735	736	737	738	737	738	734	10 3	743	5 22	715	19
729	731	732	733	733	734	733	733	733	726	1 28	743	5 31	705	20†
727	727	727	728	728	728	728	728	728	726	9 16	737	5 43	708	21
730	731	732	732	733	734	735	735	735	724	23 56	737	5 20	694	22
735	739	740	741	741	740	740	740	740	735	10 8	746	5 38	707	23†
735	736	738	738	738	738	737	736	736	731	10 11	745	6 12	698	24†
735	738	738	739	740	740	739	738	738	738	1 50	757	5 30	720	25
731	734	735	736	737	737	737	736	736	732	1 28	750	5 31	693	26
740	742	743	744	745	746	745	744	742	740	1 58	757	6 8	710	27
734	736	738	738	739	738	738	735	734	741	9 42	762	6 12	721	28
726	729	729	729	729	729	728	726	726	729	1 55	747	5 16	712	29
715	717	721	720	720	720	718	716	717	714	1 4	736	5 19	692	30
731	733	735	735	736	736	735	734	734	730					Mean
736	738	739	739	739	739	739	738	738	735					Mean.†

*See footnote on page 113.
†Five international quiet days.

(Averages for periods of sixty minutes centred at the full hours of Greenwich mean time.)

MAY. 17000 γ PLUS TABULAR QUANTITIES.

Date.	Hours (G. M. T.)														
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	720	727	728	709	691	677	**676**	680	691	701	708	707	701	696	697
2	705	710	702	693	685	679	685	697	713	722	731	735	737	736	736
3	750	753	746	738	734	730	735	739	743	747	754	759	759	753	746
4	753	758	751	737	728	718	719	719	724	731	736	738	738	733	732
5†	737	742	737	726	720	715	719	727	728	733	738	743	737	728	727
6	731	738	733	717	694	679	689	707	715	725	730	730	725	719	718
7	723	729	727	719	709	697	694	696	703	711	715	720	721	717	714
8	722	726	715	695	684	685	701	724	741	752	753	751	745	739	735
9	745	749	744	730	717	713	714	722	731	742	750	752	750	742	738
10†	744	751	753	744	730	723	717	721	732	746	754	757	749	738	731
11	737	743	746	738	720	696	698	711	727	737	743	751	752	747	740
12	748	752	753	747	729	713	712	723	736	747	752	753	751	745	741
13	745	747	741	731	717	708	711	723	730	734	735	731	734	739	736
14	740	742	738	729	722	717	711	712	722	733	734	731	727	726	728
15	731	735	734	727	716	706	707	713	717	717	717	715	717	719	721
16	727	731	733	726	710	711	721	729	740	747	753	756	752	748	744
17	747	749	744	735	729	723	720	718	729	737	740	739	739	741	741
18†	748	748	740	729	716	714	716	724	732	738	742	737	731	730	732
19	736	736	731	727	722	715	712	715	721	729	735	734	729	725	727
20	737	742	736	724	713	706	709	713	718	722	720	721	723	727	729
21†	740	744	739	735	729	720	713	715	728	742	748	745	743	737	733
22†	744	753	755	746	720	704	702	707	711	717	722	725	727	728	730
23	740	746	744	734	721	711	708	707	711	722	731	736	735	735	731
24	739	741	738	730	721	718	728	739	746	748	745	746	749	747	743
25	755	761	**766**	758	742	725	727	735	746	753	755	755	754	754	755
26	758	763	761	753	740	727	723	719	726	742	748	748	750	751	749
27	757	762	761	755	744	731	721	717	730	741	748	754	757	753	746
28	753	760	764	760	739	715	707	710	716	730	744	747	747	739	738
29	748	753	744	732	710	698	706	712	719	731	735	736	**737**	737	734
30	741	747	749	744	727	712	713	716	717	730	740	744	742	736	731
31	733	738	735	726	715	709	705	699	697	705	714	722	724	720	715
Mean .	740	**744**	741	732	719	**710**	710	716	724	733	738	739	738	735	733
Mean† .	743	**747**	745	736	723	715	**713**	719	726	735	741	741	737	732	731

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1	717	721	723	715	698	687	683	692	707	723	732	741	749	750	746
2	761	768	766	759	749	735	729	730	739	747	756	768	772	768	760
3	767	774	**776**	775	765	756	748	747	752	762	769	770	768	763	758
4†	767	771	766	762	753	749	747	758	767	771	773	775	771	765	762
5†	766	769	765	755	745	739	732	734	742	755	765	763	758	754	753
6	752	752	748	741	727	709	714	722	736	743	745	746	738	728	726
7	732	736	731	720	717	708	705	709	720	728	728	726	723	719	717
8	724	726	717	712	710	705	705	710	726	744	754	756	752	744	742
9	754	758	761	755	744	733	729	731	741	750	752	755	756	753	749
10	757	759	751	740	731	723	722	724	732	741	749	752	753	750	747
11	759	762	766	765	758	746	739	737	741	747	752	754	755	752	748
12	757	761	758	750	740	729	723	731	737	746	750	752	753	752	746
13	753	755	753	744	737	737	733	732	732	736	743	750	753	749	744
14†	746	748	752	753	748	737	732	727	732	735	740	744	745	742	738
15	741	742	735	723	709	699	696	701	710	720	727	730	727	727	724
16	727	732	723	717	707	697	692	697	709	717	717	719	719	719	717
17	727	730	729	723	717	712	708	704	705	716	731	744	747	746	742
18†	755	760	759	754	742	729	710	716	730	735	743	753	756	753	750
19	760	766	767	761	754	741	736	738	746	757	763	764	759	752	750
20	759	761	760	755	746	739	742	747	749	752	760	761	758	752	747
21	754	762	759	750	740	730	729	727	736	748	755	758	653	743	737
22	750	756	756	745	730	716	716	721	730	743	755	753	747	739	736
23	749	757	761	750	732	689	**671**	673	689	699	712	723	730	732	725
24	739	747	754	749	741	732	726	727	735	750	756	748	743	737	738
25	755	759	752	736	732	731	729	728	733	744	749	750	751	747	741
26†	758	765	768	764	754	734	721	721	730	739	747	751	754	755	749
27	759	767	767	759	743	735	721	720	724	741	754	758	754	751	744
28	749	757	761	757	750	732	725	724	727	731	739	748	752	749	742
29	748	752	744	732	727	733	731	727	731	739	742	741	737	733	729
30	734	740	737	727	719	715	705	705	702	703	709	721	722	718	713
Mean .	749	**754**	752	745	735	725	**720**	722	730	739	745	749	749	745	741
Mean† .	759	**762**	762	758	748	738	**728**	731	740	747	753	757	757	754	750

†Five international quiet days.

(Averages for periods of sixty minutes centred at the full hours of Greenwich mean time.)

MAY. 17000 γ PLUS TABULAR QUANTITIES.

Hours (G. M. T.)									Mean.*	Maximum.		Minimum.		Date.
15	16	17	18	19	20	21	22	23		Time.	Mag.	Time.	Mag.	
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H. M.	γ	H. M.	γ	
702	704	705	705	705	705	705	704	704	702	1 29	733	5 26	674	1
738	741	744	747	749	751	751	752	752	725	23 59	754	4 30	675	2
748	749	751	752	753	753	754	754	755	748	12 26	760	5 1	729	3
734	737	738	739	739	740	740	740	740	735	0 52	760	6 44	717	4
729	731	733	734	735	735	734	734	734	731	11 8	744	5 6	714	5†
722	723	726	726	727	728	728	727	728	720	1 14	740	5 14	676	6
718	719	720	721	721	721	720	720	720	716	1 22	730	5 40	692	7
738	739	742	743	743	744	744	744	744	732	9 5	753	4 22	682	8
739	742	744	745	745	745	746	745	746	739	11 10	752	5 28	711	9
735	737	738	738	737	737	736	736	737	738	11 40	758	6 2	715	10†
743	745	745	745	745	745	745	745	747	737	11 42	754	5 22	692	11
741	743	746	746	745	744	744	743	742	741	11 12	754	5 26	707	12
740	735	739	737	739	739	737	736	736	733	0 54	748	5 5	706	13
727	730	731	733	734	733	730	732	729	728	1 18	743	6 30	710	14
718	718	723	724	724	723	724	724	723	720	1 6	737	5 4	705	15
742	744	745	744	744	744	744	743	743	739	11 14	758	5 12	703	16
741	741	742	743	743	742	743	743	743	738	0 52	750	6 50	717	17
734	735	735	735	735	735	735	735	736	733	0 32	750	4 42	713	18†
729	732	734	735	734	735	736	735	734	729	1 4	736	5 50	711	19
729	730	732	733	734	734	734	735	735	727	0 50	744	5 16	704	20
737	739	740	740	740	741	741	742	742	736	9 58	749	6 34	710	21†
731	734	735	735	735	735	734	735	736	729	1 26	756	5 22	700	22†
733	738	740	739	737	737	736	735	736	731	1 6	748	6 49	705	23
745	746	749	749	750	750	748	747	748	743	17 5	751	4 34	715	24
756	758	759	760	760	759	759	757	757	753	2 6	767	5 18	723	25
751	754	755	755	755	754	752	752	753	748	1 32	764	7 8	718	26
747	748	748	749	749	749	747	746	746	746	1 4	764	5 14	717	27
741	743	744	744	745	742	741	740	741	739	2 33	766	6 2	705	28
735	736	737	737	737	737	737	735	736	731	1 0	754	4 46	693	29
732	732	732	733	734	734	732	731	733	732	1 36	750	5 14	709	30
717	717	718	718	718	717	717	717	719	717	1 11	738	7 30	694	31
735	736	738	738	738	738	738	738	738	733					Mean.
733	735	736	737	737	737	736	736	737	734					Mean.†

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747	749	752	759	756	756	758	757	759	733	23 59	760	6 9	683	1
761	763	762	762	762	763	763	763	763	757	11 46	774	4 50	727	2
758	760	760	760	761	761	760	762	763	762	2 6	777	6 18	744	3
763	764	764	764	764	764	764	765	766	764	11 10	775	5 50	743	4†
753	755	756	755	755	756	755	754	753	753	0 48	770	6 10	731	5†
729	731	732	732	732	732	731	731	731	733	1 2	753	5 26	708	6
718	720	720	720	720	720	718	718	718	720	1 0	738	5 29	704	7
745	749	751	751	751	753	753	752	753	737	22 38	757	5 18	703	8
749	752	754	753	754	755	753	753	752	750	1 54	762	6 18	727	9
750	754	754	756	756	755	754	754	755	747	1 14	761	6 6	719	10
751	753	753	753	754	755	755	753	753	753	2 6	768	6 26	735	11
746	748	748	748	747	747	747	747	748	746	1 18	764	5 54	722	12
744	745	746	747	746	746	746	745	744	744	1 44	756	7 38	731	13
737	739	739	740	740	740	739	739	738	740	2 44	755	6 46	726	14†
724	727	727	726	726	725	724	725	725	722	0 42	743	5 55	686	15
719	718	719	721	721	720	720	720	719	716	1 10	734	5 42	691	16
743	745	748	749	748	749	750	751	750	735	21 30	751	6 58	703	17
751	752	754	755	756	756	756	756	757	747	1 54	762	6 18	704	18†
751	753	755	755	755	755	755	754	755	754	1 39	768	5 38	734	19
749	751	752	753	752	752	750	750	751	752	10 38	763	5 8	737	20
742	744	745	747	745	744	745	745	745	745	1 4	763	7 2	725	21
740	743	745	746	747	748	745	744	745	741	10 24	757	5 42	713	22
728	730	732	735	735	737	735	735	734	725	1 44	762	5 46	669	23
738	740	741	741	743	743	743	742	741	741	10 5	758	6 16	721	24
742	746	748	748	749	749	749	749	749	744	1 6	761	6 54	726	25
748	748	748	748	749	750	750	749	750	748	1 42	769	6 40	716	26†
745	746	746	746	746	745	746	746	746	746	1 30	768	6 44	719	27
741	739	739	738	737	738	737	738	739	741	1 58	761	6 34	722	28
729	730	731	732	732	732	732	732	731	734	0 54	754	7 26	726	29
712	716	719	722	725	723	723	723	722	719	0 59	741	8 45	700	30
742	744	745	745	746	745	745	745	745	742					Mean.
751	751	752	752	753	753	753	753	753	751					Mean.†

*See footnote on page 113.

†Five international quiet days.

(Averages for periods of sixty minutes centred at the full hours of Greenwich mean time.)

JULY. 17000 γ PLUS TABULAR QUANTITIES.

Date.	Hours. (G. M. T.)														
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	728	734	730	718	711	715	719	723	726	733	740	743	742	743	743
2	760	764	762	757	756	746	731	733	743	749	750	753	754	752	749
3	763	766	761	756	751	753	751	752	758	763	767	771	769	760	753
4	765	770	767	759	748	741	730	734	749	762	766	763	756	749	747
5	757	762	757	746	727	720	717	722	734	737	738	743	744	742	739
6	752	760	750	730	721	714	709	718	745	745	740	739	740	735	734
7	739	744	743	734	718	699	704	707	709	713	713	726	736	736	730
8	730	736	739	736	727	706	688	687	691	704	714	719	724	721	716
9†	718	724	727	727	708	702	697	701	711	720	723	738	750	752	748
10	755	762	763	764	759	747	730	723	724	731	743	755	762	757	754
11	769	774	774	766	754	740	737	737	743	747	754	763	764	762	756
12	659	766	768	754	743	737	743	747	748	751	754	752	752	754	751
13†	654	758	757	749	730	720	721	720	727	738	746	751	754	750	743
14	649	755	752	742	728	712	709	710	723	731	733	733	730	731	731
15	741	747	750	741	726	721	718	717	723	730	730	729	734	736	732
16	742	750	754	743	727	707	704	710	719	719	727	730	740	742	737
17	755	762	755	743	734	725	724	721	722	723	729	737	741	748	739
18	754	760	764	759	753	743	740	745	744	744	743	745	750	746	745
19†	754	757	751	751	751	739	734	737	743	749	759	759	757	750	747
20	760	765	763	755	748	735	736	739	743	747	751	752	748	745	745
21	757	759	753	739	730	747	754	761	768	768	772	773	772	760	752
22	757	759	752	744	734	729	723	724	733	745	750	750	747	744	744
23	751	758	756	741	728	718	718	721	726	739	744	745	741	737	737
24	649	754	751	744	734	728	723	721	731	748	756	755	750	745	741
25	750	756	752	736	720	715	721	729	735	739	741	745	748	742	741
26	737	744	741	725	713	719	716	717	725	736	743	741	733	729	725
27	729	735	735	729	721	721	717	716	718	710	711	726	733	727	719
28†	725	731	720	705	694	694	693	697	702	705	711	715	714	709	707
29†	716	723	722	712	705	697	710	725	720	730	744	753	757	751	743
30	754	758	760	756	758	759	756	752	760	765	768	769	766	759	754
31	762	767	760	747	742	742	739	747	758	767	768	766	761	754	753
Mean‡ . .	748	753	751	742	732	725	723	725	732	738	743	746	747	744	741
Mean† . .	733	739	735	729	718	711	711	716	721	729	737	743	746	743	738

AUGUST.

1	760	762	757	745	735	724	728	733	737	741	748	750	744	749	748
2	748	753	748	732	717	709	709	713	717	725	729	732	733	729	727
3	737	745	742	719	701	708	712	718	723	725	736	744	741	735	734
4	752	761	754	745	739	732	733	742	746	746	749	749	747	747	746
5	755	763	763	746	732	716	719	727	735	747	751	753	754	750	747
6	759	763	761	751	740	733	733	738	744	747	752	752	757	754	750
7†	754	761	755	739	727	728	732	745	749	751	755	757	752	748	745
8†	748	754	757	750	739	715	714	717	716	713	719	731	736	738	733
9†	739	745	742	733	719	708	711	728	737	743	754	754	751	743	742
10	757	761	760	751	746	727	724	737	740	738	740	750	755	755	750
11	754	761	758	747	735	722	721	721	724	734	742	741	741	741	743
12	752	761	759	748	735	726	732	734	737	741	741	743	747	746	746
13	750	757	756	749	734	711	713	726	733	735	741	740	738	739	739
14	744	748	749	747	734	720	706	700	709	716	726	732	734	737	735
15	740	749	745	729	713	703	707	708	716	724	737	741	737	734	731
16	733	738	742	737	729	723	718	718	718	721	729	737	744	742	739
17	751	758	755	745	741	748	740	744	744	751	752	749	748	746	745
18	756	762	756	749	745	741	741	733	737	745	751	753	752	755	754
19	760	765	766	759	743	725	718	727	735	746	755	760	755	750	748
20	754	762	758	739	723	712	709	708	716	728	738	744	741	737	737
21	745	754	754	737	715	680	692	713	729	740	750	751	744	733	729
22	737	742	740	724	702	692	694	703	715	736	742	738	734	729	722
23	730	737	734	719	697	684	692	707	724	737	747	748	745	740	741
24	754	760	762	753	743	738	739	744	746	755	760	761	760	755	751
25†	757	764	763	751	733	714	711	715	721	735	746	754	756	753	751
26	757	760	759	749	738	729	730	736	743	750	756	759	756	749	746
27	752	755	756	746	725	716	713	713	720	728	738	746	747	743	740
28†	748	752	752	746	740	727	718	721	728	735	744	748	743	743	737
29	742	748	750	737	717	697	701	712	722	732	739	742	741	734	731
30	739	746	745	732	715	709	716	723	731	735	739	740	737	729	727
31§	735	740	741	725	705	703	§	§	§	§	§	§	§	738	738
Mean‡ . .	749	755	753	742	728	717	718	723	730	737	743	747	746	743	740
Mean† . .	749	755	754	744	731	718	717	725	731	735	744	749	747	745	742

†Five international quiet days.

‡Mean of 30 days.

§Adjustment of V. F. magnetograph. The day has been omitted for the means.

(Averages for periods of sixty minutes centred at the full hours of Greenwich mean time.)

JULY. 17000 γ PLUS TABULAR QUANTITIES.

Hours. (G. M. T.)									Mean.*	Maximum.		Minimum.		Date.
15	16	17	18	19	20	21	22	23		Time.	Mag.	Time.	Mag.	
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H. M.	γ	H. M.	γ	
745	747	748	749	751	752	753	754	755	738	23 59	756	4 2	710	1
750	751	753	755	756	757	757	757	758	752	1 14	765	6 2	727	2
754	755	757	757	758	757	757	757	757	758	11 12	772	4 14	750	3
750	751	753	754	755	755	755	754	755	753	1 14	772	5 58	728	4
743	747	748	747	747	746	747	747	746	742	0 58	763	5 42	716	5
737	739	741	741	741	741	740	740	739	737	1 6	762	6 6	708	6
729	731	731	732	732	732	731	730	730	726	1 36	747	5 9	696	7
716	717	719	720	719	718	716	716	717	716	2 18	736	6 4	684	8
748	750	752	752	753	753	752	751	753	735	23 58	753	5 42	693	9†
762	765	768	769	771	769	770	771	770	756	16 42	777	7 22	721	10
758	761	763	764	764	764	762	761	763	758	1 8	780	6 46	733	11
750	751	752	752	752	752	752	752	751	752	1 36	771	5 36	735	12
743	744	745	745	745	744	745	744	744	742	1 2	760	7 8	719	13†
734	736	736	739	739	737	738	738	736	733	1 10	756	7 46	707	14
731	733	737	737	737	738	735	735	733	733	1 26	753	7 43	711	15
738	737	739	741	741	741	741	741	743	734	1 51	755	6 8	703	16
741	742	745	746	746	745	745	744	745	740	1 18	763	5 20	719	17
745	746	748	748	748	747	747	746	747	748	1 48	768	5 38	739	18
748	750	751	752	752	752	752	752	753	750	10 8	761	5 54	733	19†
747	747	750	752	753	754	755	755	755	750	1 8	766	5 10	735	20
754	754	755	755	753	752	753	751	753	756	10 43	774	3 58	725	21
743	745	746	746	745	745	745	746	746	743	0 24	761	6 9	722	22
737	739	741	742	742	742	742	741	742	739	1 14	759	4 58	716	23
739	739	743	743	743	742	744	745	745	742	10 6	756	7 17	719	24
739	741	742	743	744	744	743	742	742	739	1 14	758	4 42	713	25
728	731	734	733	733	733	733	732	731	730	1 6	747	4 10	709	26
718	720	721	723	723	724	723	723	724	723	1 18	737	9 23	707	27
711	713	714	715	716	717	716	715	716	711	0 58	732	3 59	692	28†
745	744	751	752	753	754	754	754	755	737	11 38	757	5 2	695	29†
753	755	757	759	760	763	763	763	764	760	10 50	770	6 54	750	30
755	755	757	758	759	759	760	764	765	757	9 46	771	5 43	737	31
742	743	745	746	746	746	746	746	746	742					Mean.‡
739	740	743	743	744	744	744	743	744	735					Mean.†

AUGUST.

746	749	749	752	752	754	756	757	751	747	1 37	768	5 6	724	1
729	732	733	733	733	733	734	733	735	730	1 10	755	6 18	707	2
737	741	742	744	745	746	746	747	749	734	1 10	748	4 10	699	3
745	747	750	752	752	752	753	752	753	748	1 4	762	5 42	729	4
746	749	751	751	751	751	751	751	751	746	1 12	765	5 3	714	5
751	753	754	755	755	753	753	753	754	751	1 2	764	5 16	732	6
746	746	748	748	748	747	747	746	747	747	1 10	763	4 0	724	7†
734	736	738	738	738	738	737	737	737	734	1 55	762	5 30	710	8†
745	748	751	753	754	755	755	755	755	743	10 18	756	5 21	704	9†
749	752	753	753	753	753	753	753	753	748	1 2	763	5 34	721	10
744	748	753	754	754	756	753	751	751	744	0 58	761	6 54	717	11
747	748	750	751	752	752	752	752	751	746	1 18	763	4 34	725	12
741	742	744	744	745	745	746	746	747	740	1 24	758	5 17	708	13
735	734	741	737	739	741	743	742	743	733	2 14	750	6 54	697	14
735	732	730	733	731	730	730	729	735	729	0 58	752	4 59	700	15
743	743	744	745	747	747	748	749	749	737	22 9	750	3 43	717	16
746	749	749	752	753	754	755	754	755	749	1 14	760	5 19	736	17
754	755	756	757	758	758	757	758	757	752	1 16	764	8 1	730	18
752	751	750	751	752	752	752	752	752	749	1 20	769	5 34	716	19
738	739	740	740	740	741	741	741	743	736	1 18	763	6 33	707	20
729	732	733	733	734	735	735	736	736	732	1 30	757	5 32	677	21
722	724	725	726	726	726	726	726	726	724	1 24	744	5 4	691	22
743	745	748	749	750	751	751	751	752	735	10 47	749	4 54	683	23
751	752	753	753	754	755	755	755	756	753	1 32	763	4 24	737	24
751	751	753	753	754	755	755	755	755	746	1 10	766	5 48	709	25†
746	748	751	753	753	753	752	753	752	749	1 13	761	5 18	727	26
740	741	742	743	743	743	743	744	745	738	1 34	758	6 34	709	27
737	738	739	740	740	740	740	740	740	739	1 34	753	6 30	716	28†
733	733	735	737	737	738	737	738	738	732	1 32	751	5 2	696	29
728	729	731	732	733	733	733	733	734	731	1 27	749	5 3	707	30
738	742	745	747	749	749	750	751	752	§	§	§	§	§	31§
741	743	744	745	746	746	746	746	747	741‡					Mean.‡
743	744	746	746	747	747	747	747	747	742					Mean.†

*See footnote on page 112.
†Five international quiet days.
‡Mean of 30 days.
§Adjustment of V. F. Magnetograph. The day has been omitted for the means.

(Averages for periods of sixty minutes centred at the full hours of Greenwich mean time.)

SEPTEMBER. 17000 γ PLUS TABULAR QUANTITIES.

Date.	Hours (G. M. T.)														
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	753	757	758	747	734	730	726	726	736	746	753	752	752	753	753
2	762	769	763	747	731	725	726	729	742	755	761	763	759	753	753
3†	759	763	764	752	735	717	713	721	735	742	751	757	755	751	752
4†	757	763	763	745	729	717	713	713	715	733	751	761	760	749	747
5†	749	755	751	732	698	682	682	691	713	730	743	747	743	734	734
6	738	746	745	731	722	717	706	697	701	712	726	736	735	729	725
7	726	734	738	725	704	697	701	712	731	748	751	752	752	751	751
8	765	771	770	757	746	741	739	744	752	764	773	776	773	766	764
9	767	771	774	761	740	726	733	729	747	754	759	763	763	759	758
10	764	767	772	767	762	744	734	737	750	764	775	778	773	764	762
11	769	771	772	764	750	737	729	728	735	740	748	753	759	760	758
12	768	772	777	771	761	746	738	738	746	754	761	765	763	762	763
13	773	779	777	765	751	728	715	707	719	734	746	752	752	746	745
14	756	763	761	750	737	726	719	718	725	741	752	754	756	754	751
15	764	768	765	752	736	731	731	734	744	753	759	757	751	750	752
16	760	766	767	740	720	709	710	723	734	744	744	741	739	742	743
17	756	761	760	740	720	709	711	720	731	745	755	755	752	749	745
18	758	763	763	748	729	717	722	736	747	757	763	762	763	754	751
19†	757	762	764	739	712	710	719	723	727	739	747	746	743	741	742
20	751	756	757	744	731	716	714	714	725	739	750	750	744	740	740
21	746	748	751	742	727	728	731	736	751	761	767	769	763	756	757
22	770	775	779	767	746	732	732	744	757	770	775	772	767	765	766
23	774	777	777	766	751	732	724	724	739	757	765	766	763	760	759
24	764	769	768	751	733	719	720	719	732	745	752	755	757	755	753
25	751	755	758	748	732	721	715	713	722	740	744	744	739	738	738
26	733	735	742	737	723	704	689	683	698	716	729	730	728	726	726
27	724	726	732	729	719	707	702	699	706	718	725	725	719	719	721
28	720	723	724	720	718	715	717	726	736	749	757	758	755	756	758
29†	763	768	773	764	749	735	731	734	738	753	757	757	755	759	761
30	764	767	771	767	754	739	732	732	742	755	765	764	762	760	761
Mean . .	755	760	761	749	733	722	719	722	733	745	753	755	753	750	750
Mean† . .	757	762	763	746	725	712	712	716	726	740	750	754	751	747	747

OCTOBER.

1†	762	766	770	765	757	749	744	743	751	762	767	767	762	760	761
2†	755	760	765	761	747	729	722	723	733	745	750	748	741	744	747
3	748	750	753	746	729	721	716	712	725	741	749	748	743	741	742
4	744	749	755	750	736	725	719	720	728	736	743	744	740	738	737
5	742	743	748	743	731	723	719	716	728	740	743	741	737	738	738
6	742	745	750	745	731	718	717	716	724	732	739	737	733	735	738
7	743	746	753	749	730	718	717	718	723	733	738	740	738	741	738
8	748	750	739	738	743	747	749	751	751	753	751	750	747	748	752
9	756	756	761	753	740	731	726	728	730	739	746	748	747	746	746
10	750	751	753	746	735	726	727	731	734	736	740	740	743	742	741
11	742	745	753	753	739	726	720	721	727	732	739	739	737	736	736
12	739	743	749	744	729	724	718	721	726	729	733	733	731	731	729
13	733	738	740	732	718	714	718	727	739	747	751	754	750	752	754
14	759	763	759	748	738	730	729	738	742	747	753	753	749	750	752
15†	753	756	763	752	735	724	719	729	743	751	755	752	747	746	747
16	747	750	751	747	741	734	728	732	738	745	749	747	747	747	748
17	740	754	758	755	748	729	721	726	732	736	741	739	740	742	746
18	742	745	746	742	735	730	729	735	735	736	738	738	738	742	747
19	746	746	755	754	745	733	727	734	745	743	743	744	743	747	752
20	753	757	753	739	734	730	733	743	748	750	751	750	747	749	751
21	755	758	763	763	749	739	739	740	747	756	758	755	751	751	754
22	754	755	756	752	744	739	737	740	748	756	763	757	750	751	752
23	750	750	754	753	750	739	724	721	731	737	739	740	738	738	740
24	741	741	745	747	743	737	733	739	741	743	747	750	746	744	745
25	746	748	751	757	751	743	737	742	744	746	752	755	752	751	751
26†	752	756	759	756	751	746	740	740	747	749	749	749	749	749	750
27†	751	743	749	759	753	748	746	748	754	752	749	750	751	752	752
28	749	750	752	751	741	735	731	735	742	747	747	746	745	747	748
29	751	750	753	751	745	736	736	745	750	751	748	745	743	745	746
30	747	747	744	735	730	731	740	747	753	753	752	747	745	745	745
31	746	749	748	748	742	733	729	730	734	737	738	741	742	743	745
Mean .	748	750	753	750	740	732	729	732	738	744	747	747	744	745	746
Mean† .	755	756	761	759	749	739	734	737	746	752	754	753	750	750	751

†Five international quiet days.

(Averages for periods of sixty minutes centred at the full hours of Greenwich mean time.)

SEPTEMBER. 17000 γ PLUS TABULAR QUANTITIES.

Hours (G. M. T.)									Mean.*	Maximum.		Minimum.		Date.
15	16	17	18	19	20	21	22	23		Time.	Mag.	Time.	Mag.	
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H. M.	γ	H. M.	γ	
752	754	757	757	758	758	759	759	759	750	23 58	762	6 37	722	1
753	755	757	758	757	757	757	757	758	752	1 14	771	5 10	724	2
752	753	755	755	755	755	754	754	754	748	1 1	767	5 48	711	3†
749	749	751	752	751	751	751	751	751	744	1 28	766	6 46	711	4†
737	739	741	743	743	742	742	742	742	731	1 14	757	5 26	679	5†
727	729	731	732	732	732	733	732	732	727	1 26	749	7 2	695	6
756	759	757	761	762	766	765	767	767	744	23 58	769	4 27	695	7
762	768	769	770	771	772	771	771	771	764	11 2	777	5 40	737	8
759	762	765	768	769	769	770	769	770	758	1 46	776	5 46	720	9
765	768	769	767	769	767	770	768	769	763	10 34	781	6 22	730	10
760	760	761	762	764	764	764	764	765	756	1 27	774	6 26	727	11
766	765	765	766	765	768	767	768	767	762	2 12	778	6 12	735	12
747	749	750	751	752	750	751	751	751	747	1 30	782	6 48	705	13
749	748	751	752	753	751	755	750	752	747	0 58	765	6 26	715	14
751	752	753	751	752	752	754	754	755	751	1 22	770	5 38	729	15
745	743	744	745	745	747	748	748	748	741	1 8	767	5 10	707	16
743	745	745	746	746	746	746	747	747	743	1 24	764	5 43	708	17
750	751	752	753	754	753	753	753	753	750	1 36	766	5 32	716	18
743	744	746	747	748	748	748	748	749	741	1 39	766	4 26	703	19†
743	743	746	747	747	747	746	745	745	741	1 42	760	6 55	712	20
760	763	767	765	765	766	765	768	767	755	11 8	771	4 2	724	21
768	770	770	771	771	771	771	770	772	765	1 38	782	6 6	728	22
761	761	764	764	765	765	764	764	764	758	1 20	779	6 34	720	23
754	756	757	758	758	758	757	756	756	750	1 28	772	7 4	717	24
740	742	744	746	745	745	745	744	743	739	1 42	758	7 17	713	25
726	726	727	729	729	730	729	729	730	723	2 1	743	7 34	682	26
721	723	727	730	731	729	731	728	727	721	2 22	733	5 39	699	27
759	760	761	764	765	765	765	765	765	747	23 58	766	6 22	713	28
762	763	764	766	767	767	767	767	767	758	2 6	774	6 12	730	29†
764	764	766	767	767	767	768	767	768	760	2 50	771	6 32	728	30
751	752	754	755	755	755	756	755	755	748					Mean.
749	750	751	752	753	753	752	752	753	745					Mean†.

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762	763	763	764	765	765	764	764	764	761	1 58	770	6 52	740	1†
748	749	750	752	753	752	752	751	750	747	1 46	765	5 10	721	2†
744	745	747	749	748	747	746	746	746	741	1 55	754	6 50	710	3
739	741	743	746	745	745	744	743	741	740	2 12	757	5 52	717	4
739	742	745	747	747	747	745	745	743	739	1 54	748	6 38	710	5
739	740	742	744	745	745	745	744	743	737	2 5	751	6 34	714	6
739	744	747	750	752	753	750	750	747	740	2 18	754	5 19	715	7
755	757	757	758	758	758	758	756	753	751	18 18	760	2 20	732	8
746	751	753	754	753	755	754	751	750	747	2 6	764	6 24	725	9
743	745	746	747	747	746	747	745	744	742	2 10	755	5 17	723	10
737	738	739	740	741	740	741	739	739	737	2 36	757	6 26	718	11
731	733	734	735	736	734	733	733	733	732	2 36	751	6 2	716	12
755	756	757	758	758	758	759	759	759	746	21 8	760	5 4	713	13
752	751	754	755	756	755	756	756	755	750	1 30	765	5 22	726	14
748	749	750	752	752	751	751	751	751	747	2 10	764	5 58	718	15†
746	752	750	746	749	744	743	745	749	745	16 46	755	5 54	727	16
748	747	749	752	750	749	749	745	748	743	1 32	760	6 4	719	17
744	745	747	749	749	749	748	746	750	742	22 42	753	5 46	728	18
752	753	755	756	755	755	755	754	754	748	17 14	758	6 18	725	19
751	753	757	757	758	757	756	756	756	749	18 26	760	4 56	728	20
755	756	757	758	759	759	758	758	757	754	2 34	766	6 18	738	21
754	754	757	758	758	758	755	756	756	752	9 56	765	6 14	735	22
740	740	743	743	743	743	743	743	744	741	2 42	755	6 18	719	23
747	747	748	750	749	750	750	750	749	745	21 42	751	5 42	721	24
751	751	751	752	752	751	751	751	752	750	3 2	759	6 14	736	25
750	749	750	751	751	752	752	752	752	750	2 6	760	6 14	739	26†
751	751	751	751	751	750	751	750	750	750	2 11	762	5 50	745	27†
748	748	749	751	751	751	751	750	750	746	21 19	753	5 58	731	28
745	747	748	747	746	746	745	745	744	746	1 46	755	5 14	734	29
745	747	748	748	747	746	745	743	745	745	10 46	755	4 14	729	30
746	747	749	748	748	744	745	746	745	743	1 14	751	6 30	724	31
747	748	749	751	751	750	750	749	749	745					Mean.
752	752	753	754	754	754	754	754	753	751					Mean†.

* See footnote on page 113.

† Five international quiet days.

(Averages for periods of sixty minutes centred at the full hours of Greenwich mean time.)

NOVEMBER. 17000 γ PLUS TABULAR QUANTITIES.

Date.	Hours. (G. M. T.)														
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	746	748	751	749	739	729	727	730	735	735	737	738	737	736	740
2	739	740	748	747	739	731	723	719	736	742	741	738	733	737	741
3	741	742	739	744	734	722	721	733	736	731	730	731	734	742	740
4	737	740	741	745	740	731	721	726	736	741	741	741	741	742	744
5	750	751	754	751	746	742	734	739	750	753	753	755	753	748	752
6	763	764	770	773	772	767	764	768	770	770	764	765	761	761	764
7	766	767	767	766	762	748	737	746	755	757	756	755	747	748	750
8	752	751	751	746	738	731	723	724	725	723	725	730	731	731	733
9	739	741	745	739	726	712	710	715	725	730	728	728	728	726	727
10†	731	732	733	731	721	710	703	708	717	717	713	714	712	714	717
11†	724	726	728	727	710	**692**	697	712	719	716	715	718	721	722	724
12	726	726	729	733	732	723	716	719	727	729	723	716	714	718	723
13	724	723	724	726	728	727	727	737	745	747	745	749	747	749	754
14	763	765	768	772	762	755	756	762	769	767	765	765	763	763	766
15	762	763	767	776	773	764	761	758	764	767	762	760	759	759	762
16	755	755	754	758	749	740	740	742	750	755	755	753	749	746	748
17	743	742	740	744	745	744	746	745	744	741	737	737	737	738	739
18†	733	734	739	737	726	712	709	714	718	718	717	718	717	718	720
19	726	726	730	737	740	735	728	730	732	732	727	728	728	729	730
20	728	730	735	737	737	728	723	724	722	717	721	729	730	731	733
21	735	735	735	742	748	751	745	748	749	744	743	738	737	738	738
22	739	739	739	747	758	762	761	762	768	775	777	776	773	773	776
23	783	782	785	790	792	790	785	781	786	787	789	789	789	789	789
24†	788	789	792	**797**	797	788	700	694	700	712	719	725	730	736	739
25†	745	746	749	751	751	743	739	745	750	749	750	749	748	751	751
26	747	745	744	746	749	747	741	741	741	739	739	739	739	744	745
27	745	744	741	746	746	743	746	750	752	749	749	749	748	749	751
28	750	746	745	752	756	749	744	744	748	751	750	748	743	745	748
29	745	745	742	736	724	729	732	736	740	743	743	743	737	739	739
30	741	743	742	737	727	720	718	726	735	737	734	734	728	731	735
Mean	746	746	747	**749**	746	739	**733**	736	741	743	742	742	741	742	744
Mean†	744	745	748	**748**	741	729	**710**	715	721	723	723	725	726	728	730

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1†	734	734	735	736	729	715	712	721	732	736	734	725	718	721	724
2†	723	721	721	726	729	728	727	739	748	751	750	750	748	750	754
3	761	764	765	770	763	746	743	755	760	757	756	753	745	749	753
4	749	751	758	758	753	743	741	746	747	745	749	743	748	749	747
5	745	745	748	753	750	735	728	735	732	731	737	743	739	735	739
6	742	745	749	760	747	735	729	730	729	726	728	728	727	731	734
7	747	750	754	753	746	737	730	734	730	738	741	745	747	750	748
8	752	752	756	758	752	744	743	745	748	751	747	749	750	751	748
9	752	752	755	758	755	735	731	737	748	749	747	745	743	745	749
10	751	749	749	756	751	728	723	735	740	744	744	740	737	738	742
11	747	748	749	760	756	745	733	732	735	735	741	747	744	742	744
12	738	740	747	742	741	727	724	730	729	726	729	734	734	735	737
13	731	733	734	734	730	723	727	733	731	737	741	740	735	739	743
14	745	748	752	754	736	718	720	726	728	732	740	744	741	744	747
15	745	749	751	756	756	741	736	743	747	744	750	751	747	749	754
16	755	755	757	763	762	755	750	756	762	762	761	756	750	754	759
17	761	762	755	760	770	767	767	772	775	770	766	764	763	764	765
18	753	753	754	763	763	760	757	761	761	762	759	754	750	751	754
19†	749	749	748	746	747	742	742	749	754	753	749	743	735	735	739
20†	726	726	728	730	718	**703**	707	710	718	724	731	735	730	730	737
21†	755	757	757	762	758	747	747	757	763	767	773	770	763	760	763
22	768	769	770	769	762	755	752	759	765	768	761	755	759	758	762
23	766	765	764	769	768	756	747	745	749	751	757	761	757	756	760
24	760	761	762	759	760	756	739	725	732	743	753	757	752	753	759
25	763	763	763	766	771	769	762	758	760	760	767	773	770	768	771
26	773	774	777	780	**782**	779	772	764	761	758	761	769	773	774	775
27	767	767	769	769	766	762	758	754	748	749	753	755	757	757	758
28	752	752	752	756	753	747	745	748	751	747	737	734	736	741	743
29	742	741	740	739	741	737	736	738	744	749	749	747	743	745	748
30	746	748	749	753	752	742	740	747	754	750	743	741	738	743	747
31	755	756	755	757	752	736	730	736	748	757	756	753	749	753	756
Mean	750	751	752	**755**	752	742	**739**	743	746	747	749	749	746	747	750
Mean†	737	737	738	740	736	**727**	727	735	743	746	**747**	745	739	739	743

†Five international quiet days.

(Averages for periods of sixty minutes centred at the full hours of Greenwich mean time.)

NOVEMBER. 17000 γ PLUS TABULAR QUANTITIES.

Hours (G. M. T.)									Mean.*	Maximum.		Minimum.		Date.
15	16	17	18	19	20	21	22	23		Time.	Mag.	Time.	Mag.	
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H. M.	γ	H. M.	γ	
741	740	743	745	744	745	747	743	742	740	2 7	754	5 34	722	1
737	739	741	742	740	739	740	741	740	738	2 47	752	6 18	719	2
740	745	737	741	738	739	734	737	738	736	3 26	752	5 36	716	3
748	744	746	745	745	744	745	744	747	741	14 57	750	6 8	717	4
753	753	757	756	755	752	756	755	757	751	18 17	762	5 50	728	5
762	764	764	766	765	763	762	761	758	765	2 50	775	11 52	759	6
749	749	751	750	750	749	749	749	747	753	2 20	768	5 58	734	7
732	732	734	735	735	735	734	732	733	734	1 46	752	6 14	721	8
726	727	731	732	733	732	731	730	730	729	2 4	747	5 29	708	9
717	717	718	720	721	721	721	720	721	**719**	1 58	735	6 14	702	10†
724	723	724	725	725	725	724	723	723	719	2 36	730	5 16	**689**	11†
723	720	721	725	725	725	724	724	726	723	3 17	733	11 10	713	12
754	755	758	760	760	759	760	761	760	745	21 46	762	1 31	720	13
765	767	768	770	770	770	770	768	767	766	2 38	783	5 10	753	14
762	763	761	760	759	761	759	757	756	762	3 2	777	12 50	756	15
751	749	753	754	752	750	748	749	745	750	3 4	760	5 18	737	16
739	740	741	741	740	739	737	736	735	740	5 42	747	10 26	734	17
720	731	723	724	724	723	723	722	724	723	1 4	739	5 50	707	18†
731	722	734	734	733	733	732	732	733	731	3 45	741	5 42	725	19
731	734	736	737	737	738	738	736	736	731	3 38	739	9 16	716	20
738	738	744	741	741	739	740	739	738	741	4 46	752	0 29	730	21
777	779	781	783	783	782	782	782	783	770	18 54	785	1 38	737	22
788	787	787	789	788	788	788	788	788	**787**	4 18	794	6 52	780	23
740	740	741	743	744	745	745	744	745	745	3 26	**799**	6 50	792	24†
751	749	749	751	750	748	747	746	746	748	2 28	752	5 40	736	25†
745	744	746	747	746	743	744	742	741	743	4 4	749	11 34	737	26
749	749	749	751	750	751	750	749	750	748	8 2	753	2 16	739	27
747	745	748	749	747	748	745	745	744	747	3 38	757	12 14	742	28
739	738	739	740	739	740	739	738	739	738	0 44	746	3 54	721	29
734	732	733	734	734	733	733	735	734	733	1 2	744	5 38	717	30
744	744	745	746	746	745	745	744	744	743					Mean.
730	732	731	733	733	732	732	751	732	731					Mean.†

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722	723	724	723	722	722	721	720	721	**725**	2 34	737	5 46	710	1†
754	753	754	755	756	756	755	755	755	745	23 58	756	0 42	719	2†
749	749	750	752	753	753	752	750	746	754	2 50	771	5 32	741	3
747	742	744	744	741	744	743	743	742	747	2 54	760	19 22	736	4
742	735	743	740	740	740	742	743	742	740	3 19	755	6 18	726	5
731	734	735	735	735	734	739	739	739	736	3 1	763	10 46	724	6
745	749	750	750	751	751	751	751	750	746	2 34	756	6 5	728	7
746	748	747	749	750	751	750	750	751	749	2 47	760	5 50	740	8
748	748	749	748	749	749	749	747	747	747	2 48	760	5 18	729	9
742	743	744	745	746	746	745	745	746	743	3 11	758	5 32	719	10
743	744	743	744	741	743	743	743	742	743	3 2	762	6 30	731	11
737	737	737	737	737	737	735	735	735	735	2 10	749	5 58	721	12
741	741	743	743	743	743	744	744	745	738	23 58	746	5 10	720	13
745	746	748	747	746	746	745	745	746	741	2 46	756	5 2	716	14
754	755	757	756	755	755	755	755	756	751	23 18	758	5 58	735	15
756	762	762	766	760	763	762	761	761	759	19 24	771	6 6	749	16
763	764	764	765	765	765	762	763	763	765	7 58	776	2 0	754	17
753	755	757	757	756	755	756	754	753	756	3 48	771	12 47	748	18
736	734	736	735	735	732	731	730	728	740	8 55	755	23 58	725	19†
738	740	745	748	749	751	752	753	754	733	23 56	755	5 26	**702**	20†
762	762	764	766	767	767	767	767	766	762	21 22	767	5 18	743	21†
763	765	768	766	768	768	768	769	767	764	2 36	771	6 2	749	22
757	756	757	758	760	759	756	756	759	758	3 30	771	6 52	744	23
759	759	761	761	763	764	765	764	763	755	22 4	767	6 58	722	24
770	769	768	770	771	771	769	771	769	767	3 51	775	8 54	757	25
774	771	769	770	769	769	769	767	764	**770**	4 40	**783**	8 53	756	26
757	754	754	754	756	755	753	750	750	757	2 42	772	7 30	746	27
742	743	744	745	746	746	745	746	744	745	3 2	756	11 26	732	28
746	745	747	747	748	748	747	746	745	744	9 18	751	6 10	735	29
747	747	749	749	748	748	749	749	747	747	8 17	755	5 46	737	30
753	751	755	755	754	753	754	753	755	751	2 38	758	5 42	727	31
749	749	751	751	751	751	751	750	750	749					Mean.
742	743	745	746	746	745	745	745	745	741					Mean.†

*See footnote on page 113.
†Five international quiet days.

At Colaba, a day is classed as (1) a quiet day, or a day of (2) small, (3) moderate, (4) great or (5) very great disturbance, the letters for distinguishing each class being C, S, M, G and VG respectively. For representing intermediate conditions of activity of the smaller period movements, sub-classifications Ca, Sa and Ma are used. Roughly speaking a storm having a range over 225 γ in the variation of the horizontal force during the first twenty-four hours after its commencement is classed as "Very great". It is "Great" if the range is between 150 γ and 225 γ, "Moderate" if the range is between 65 γ and 150 γ and "Small" if the range is less than 65 γ. The range is however not the only criterion used in assigning the character of a storm. The oscillations in the magnetograms are duly taken into account in determining the class to which a particular storm should belong. During the year there were 13 days of "Great", 52 of "Moderate" and 114 of "Small" disturbances. The following table gives a list of principal disturbances recorded during the year. Of the smaller disturbances, only those which showed special features have been included in this table.

PRINCIPAL MAGNETIC DISTURBANCES, 1929.

Date.	Time of beginning. G. M. T.	Duration in hours.	Horizontal force during storm.				Range.	Relative magnitude.	Remarks.
			Maximum.		Minimum.				
			Time.	Magnitude.	Time.	Magnitude.			
	H. M.		D. H. M.	γ	D. H. M.	γ	γ		
January 4	6 22	14	4 6 50	37210	4 19 6	37168	42	M	Commencement sudden.
„ 5	3 8	22	5 10 30	37210	5 21 28	37111	99	Ma	Do.
„ 8	21 30	28	8 7 20	37209	8 14 46	37155	54	Ma	Do.
„ 10	12 0	15	11 1 40	37186	10 15 8	37149	37	Sa	Commencement gradual.
„ 14	4 0	27	14 6 12	37230	14 15 44	37122	108	M	Do.
February 6	0 0	27	6 6 46	37235	6 15 10	37134	101	M	Do.
„ 8	9 26	38	9 6 2	37223	8 20 52	37135	88	M	Commencement sudden.
„ 16	8 37	51	16 8 42	37235	17 16 4	37001	234	G	Do.
„ 18	23 30	24	19 6 6	37172	19 15 42	37098	74	Sa	Do.
„ 25	19 22	52	27 6 50	37225	27 20 0	37021	204	G	Do.
March 3	14 0	30	4 6 20	37205	3 17 40	37137	68	Sa	Commencement gradual.
„ 5	3 46	19	5 5 22	37266	5 12 30	37162	104	M	Commencement sudden.
„ 7	17 18	32	8 5 38	37273	8 15 2	37153	120	M	Do.
„ 11	13 55	59	11 13 58	37260	12 13 4	36971	289	G	Do.
„ 15	8 33	41	15 8 46	37235	15 15 30	37045	190	G	Do.
„ 20	18 34	52	22 6 4	37213	21 12 2	37111	102	Ma	Do.
„ 31	22 0	18	Apr. 1 5 8	37277	Apr. 1 16 30	37193	84	S	Do.
April 4	3 31	20	4 6 38	37279	4 13 40	37166	113	M	Do.
„ 15	16 0	58	16 6 32	37219	16 17 42	37133	86	M	Do.
„ 29	4 0	19	29 5 16	37256	29 17 46	37173	83	Sa	Commencement gradual.
„ 30	5 0	20	30 8 4	37243	30 19 54	37182	61	M	Do.
May 13	3 0	19	13 6 48	37237	13 13 36	37140	97	M	Do.
„ 14	6 0	69	15 6 18	37239	14 13 22	37171	68	M	Do.
„ 23	3 0	18	23 5 40	37250	23 10 40	37147	103	M	Do.
„ 27	19 41	36	28 6 34	37302	28 12 54	37181	121	M	Commencement sudden.
June 10	5 0	43	10 5 36	37268	10 13 48	37177	91	M	Commencement gradual.
„ 22	4 0	68	22 6 2	37271	23 15 48	37183	88	Sa	Do.
„ 30	17 0	54	July 2 8 50	37269	30 17 9	37182	87	Sa	Do.
July 5	9 6	38	5 14 30	37268	5 16 54	37181	87	M	Commencement sudden.
„ 10	11 36	26	11 8 34	37245	10 17 12	37152	93	Ma	Do.
„ 14	16 32	53	14 16 32	37242	16 14 52	37089	153	G	Do.
„ 17	2 0	16	17 5 20	37213	17 12 52	37125	88	M	Commencement gradual.
„ 31	21 6	39	Aug. 1 6 32	37268	Aug. 1 16 2	37138	130	G	Commencement sudden.
August 10	23 0	23	11 6 36	37325	11 22 18	37208	117	M	Commencement gradual.
„ 14	12 30	37	14 13 2	37256	14 17 52	37097	159	G	Commencement sudden.
„ 18	5 9	40	19 7 28	37267	19 13 22	37172	95	M	Commencement gradual.
September 6	23 38	22	7 4 20	37265	7 10 28	37169	96	M	Commencement sudden.
„ 9	8 40	156	10 5 8	37264	14 14 28	37151	113	Ma	Do.
„ 21	21 9	27	21 21 37	37249	22 12 10	37140	109	M	Do.
„ 27	0 54	22	27 6 52	37264	27 14 50	37158	106	M	Do.
October 7	9 13	86	7 9 26	37286	7 13 18	37111	175	G	Do.
„ 16	11 13	40	17 7 40	37251	16 19 28	37091	160	Ma	Do.
„ 18	13 42	55	19 0 0	37212	18 16 28	37148	64	M	Do.
„ 30	3 0	33	30 5 20	37292	30 13 22	37142	150	Ma	Commencement gradual.
November 1	0 30	28	1 9 0	37281	1 23 40	37205	76	S	Commencement sudden
„ 2	20 18	48	3 2 34	37279	3 10 24	37083	196	G	Do.
„ 7	10 0	15	7 16 10	37228	7 12 2	37168	60	Sa	Do.
„ 8	21 48	26	9 5 8	37269	9 14 50	37154	115	M	Do.
„ 15	18 54	29	16 4 24	37265	16 12 58	37129	136	M	Do.
„ 20	11 0	37	21 5 52	37254	20 18 28	37144	110	M	Commencement gradual.
December 3	12 6	57	3 12 34	37241	5 13 54	37118	193	M	Commencement sudden.
„ 16	11 35	37	17 6 52	37272	16 18 20	37076	196	G	Do.
„ 21	23 58	25	22 6 42	37291	22 18 2	37127	164	G	Do.

Fourier analysis of the diurnal and annual variations of Horizontal force for the five International quiet days during 1929.

Diurnal variation: $\triangle H = c_1 \sin(\theta + \varphi_1) + c_2 \sin(2\theta + \varphi_2) + \ldots\ldots$; θ is counted at the rate of 15° per hour from midnight to midnight (G. M. T.).

Annual variation: $\triangle H = c_1 \sin(\theta + \varphi_1) + c_2 \sin(2\theta + \varphi_2) + \ldots\ldots$; θ is counted at the rate of 30° per average month.

Quantity.	Diurnal Variation.												Annual Variation.
	Jan.	Feb.	March.	April.	May.	June.	July.	August.	Sept.	Oct.	Nov.	Dec.	
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
c_1	16·5	15·7	20·4	24·1	19·8	24·6	24·1	19·9	13·3	17·6	15·5	21·5	7·0
c_2	9·5	6·0	8·5	11·8	10·7	11·1	12·5	11·0	8·3	8·7	7·7	11·8	1·8
c_3	4·7	2·3	4·4	5·7	3·1	2·3	3·5	4·2	4·9	5·2	2·9	5·3	3·2
c_4	2·8	0·9	2·2	1·7	0·9	0·9	0·7	1·5	2·1	2·3	2.1	2·4	0·4
c_1/c_2	1·7	2·6	2·4	2·0	1·9	2·2	1·9	1·8	1.6	2·0	2·0	1·8	3·9
	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′
φ_1	347 15	343 26	345 24	345 36	352 2	349 10	348 25	336 40	337 47	351 15	2 38	355 54	292 49
φ_2	240 35	230 35	245 10	249 11	250 2	246 14	244 21	219 7	233 59	244 29	242 25	258 56	101 11
φ_3	147 18	121 52	163 47	170 36	150 39	163 59	157 30	129 3	160 5	158 39	178 26	174 9	83 11
φ_4	12 50	12 57	63 47	86 41	163 26	204 49	162 47	84 48	86 47	64 33	19 2	38 33	139 51

Colaba Observatory.

Apparatus.—Milne-Shaw Seismograph (N.-S.) :

(In the underground constant temperature room.)

Damping Ratio=20 : 1 ; V.=250 ; T_0=12 Sec. ; ε=2·6.

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) An.	Remarks.	Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) An.	Remarks.
1929.		H. M. S.				1929—*contd.*		H. M. S.			
Jan. 1	P	7 39 51	..	..		Jan. 14	M	9 54 14	10	14	
	S	7 47 10	..	..			F	10 19 0	..	..	
	L	7 57 17	..	..		„ 16	P	8 14 35	..	..	
	M	8 7 16	10	1			S	8 21 23	..	..	
	F	9 12 0	..	..			L	8 30 1	..	..	
„ 1	P	13 36 48	..	..			M	8 37 23	15	11	
	S	13 43 24	..	..			F	9 54 0	..	..	
	L	13 51 22	..	..		„ 17	P	12 6 52	..	..	
	M	13 55 58	11	5			S	12 20 29	..	..	
	F	15 29 0	..	..			L	12 59 29	..	..	
„ 2	e	2 48 0	..	..	Tremors.		M	13 11 1	18	9	
	f	3 10 0	..	..			F	14 32 0			
„ 5	e	10 30 0	..	..	Tremors.	„ 17	Pe	22 39 36	..	..	Feeble Shock.
	f	10 47 0	..	..			F	23 55 0	..	..	
„ 5	P	16 17 1	..	..	Feeble local shock.	„ 18	e	22 5 0	..	..	Tremors.
	S	16 18 1	..	..			f	22 47 0	..	..	
	L	16 18 19	..	..		„ 19	Pe	11 24 53	..	..	
	M	16 18 21	..	..			S	11 29 33	..	..	
	F	16 24 0	..	..			L	11 33 3	..	..	
„ 8	P	7 33 4	..	..			M	11 33 18	7	3	
	S	7 40 37	..	..			F	12 0 0	..	..	
	L	7 51 7	..	..		„ 20	P	15 3 58	..	..	
	M	7 53 44	17	12			S	15 8 28	..	..	
	F	9 6 0	..	..			L	15 11 48	..	..	
„ 13	P	0 14 12	..	..			M	15 15 54	9	2	
	S	0 23 12	..	..			F	15 57 0	..	..	
	L	0 39 10	..	..		„ 21	P	5 18 5	..	..	
	M	0 41 10	20	330			S	5 26 9	..	..	
	F	3 49 0	..	..			L	5 38 55	..	..	
„ 13	P	18 58 25	..	..			M	5 47 23	19	8	
	S	19 3 7	..	..			F	6 16 0	..	..	
	L	19 6 36	..	..		„ 21	P	10 44 2	..	..	
	M	19 6 50	15	9			S	10 55 4	..	..	
	F	19 37 0	..	..			L	11 17 54	..	..	
							M	11 31 46	11	3	
„ 14	P	9 52 2	..	..			F	12 10 0	..	..	
	S	9 53 8	..	..		„ 21	Pe	15 46 33	..	..	
	L	9 53 26	..	..			S	15 52 57	..	..	

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) An.	Remarks.
1929—*contd.*		H. M. S.			
Jan. 21	L	16 0 3	..	..	
	M	16 4 18	10	1	
	F	16 15 0	..	..	
„ 22	Pe	14 50 38	..	..	
	S	14 54 18	..	..	
	Le	14 56 28	..	..	
	M	14 58 8	20	6	
	F	15 35 0	..	..	
„ 24	P	20 56 19	..	..	
	S	21 9 36	..	..	
	L	21 45 41	..	..	
	M	21 52 18	34	75	
	F	23 40 0	..	..	
„ 27	e	16 51 0	..	..	Tremors.
	f	17 35 0	..	..	
„ 30	P	17 6 49	..	..	
	S	17 13 29	..	..	
	L	17 21 51	..	..	
	M	17 26 29	20	5	
	F	17 53 0	..	..	
„ 31	e	19 23 0	..	..	Tremors.
	f	20 8 0	..	..	
Feb. 1	P	17 18 21	..	..	
	S	17 20 36	..	..	
	L	17 21 41	..	..	
	M	17 27 51	8	64	
	F	19 48 0	..	..	
„ 2	P	0 14 44	..	..	
	S	0 24 4	..	..	
	L	0 40 57	..	..	
	M	0 42 36	20	15	
	F	5 14 0	..	..	
„ 3	e	3 2 0	..	..	Tremors.
	f	3 41 0	..	..	
„ 4	e	9 22 0	..	..	Tremors.
	f	9 51 0	..	..	
„ 6	e	3 33 0	..	..	Tremors.
	f	4 2 0	..	..	
„ 6	P	7 0 18	..	..	
	S	7 9 18	..	..	
	L	7 25 18	..	..	
	M	7 26 57	9	1	
	F	7 55 0	..	..	

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) An.	Remarks.
1929—*contd.*		H. M. S.			
Feb. 8	P	5 52 54	..	..	Very feeble local shock.
	F	5 53 8	..	..	
„ 9	P	2 6 50	..	..	Very feeble local shock.
	F	2 7 1	..	..	
„ 9	e	2 9 0	..	..	Tremors.
	f	2 33 0	..	..	
„ 9	e	19 50 0	..	..	Tremors.
	f	20 7 0	..	..	
„ 9	e	22 4 0	..	..	Tremors,
	f	22 33 0	..	..	
„ 10	P	15 58 53	..	..	
	S	16 12 17	..	..	
	L	16 49 37	..	..	
	M	17 10 12	19	10	
	F	18 29 0	..	..	
„ 11	P	4 40 55	..	..	Very feeble local shock.
	F	4 41 16	..	..	
„ 14	P	14 52 50	..	..	
	S	14 59 30	..	..	
	L	15 7 50	..	..	
	M	15 12 20	10	3	
	P	15 49 0	..	..	
„ 15	P	5 50 4	..	..	
	S	5 57 18	..	..	
	L	6 7 8	..	..	
	M	6 11 13	10	2	
	F	6 53 0	..	..	
„ 15	e	8 24 23	..	..	Distant feeble shock.
	M	9 43 2	15	2	
	F	10 19 0	..	..	
„ 16	P	1 15 53	..	..	Very feeble local shock.
	S	1 16 5	..	..	
	Le	1 16 11	..	..	
	F	1 18 0	..	..	
„ 16	P	19 46 47	..	..	
	L	20 30 16	..	..	
	M	20 34 15	24	6	
	F	21 58 0	..	..	
„ 17	P	20 50 17	..	..	
	S	Lost in hourly time mark.			
	L	20 58 5	..	..	
	M	21 5 42	10	5	
	F	22 11 0	..	..	
„ 20	P	21 22 58	..	..	Feeble shock.
	S	21 27 40	..	..	
	Le	21 31 10	..	..	

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) An.	Remarks.
1929—*contd.*		H. M. S.			
Feb. 20	F	22 25 0	..	..	
,, 22-23	P	20 56 19	..	..	
	S	21 7 4	..	..	
	L	21 29 14	..	..	
	M	21 47 26	18	21	
	F	0 9 0	..	..	
,, 26	e	4 31 0	..	..	Tremors.
	f	4 48 0	..	..	
,, 26	P	9 14 2	..	..	
	S	9 24 48	..	..	
	L	9 46 49	..	..	
	M	9 58 1	23	20	
	F	12 2 0	..	..	
,, 28	e	0 23 0	..	..	Tremors.
	f	1 31 0	..	..	
Mar. 1	Pe	7 56 7	..	..	Distant feeble shock.
	F	9 42 0	..	..	
,, 3	P	3 14 57	..	..	
	S	3 18 13	..	..	
	L	3 19 59	..	..	
	M	3 23 33	9	5	
	F	3 45 0	..	..	
,, 3	P	11 21 1	..	..	Very feeble local shock.
	F	11 21 16	..	..	
,, 5	Pe	16 35 2	..	..	Feeble shock.
	M	16 46 12	19	5	
	F	17 13 0	..	..	
,, 7	P	1 48 48	..	..	
	S	1 58 29	..	..	
	L	2 20 22	..	..	
	M	2 25 6	24	492	
	F	6 58 0	..	..	
,, 7	P	11 15 16	..	..	
	S	11 21 3	..	..	
	L	11 26 46	..	..	
	M	11 32 11	14	3	
	F	12 59 0	..	..	
,, 8	P	5 14 58	..	..	Very feeble local shock.
	F	5 15 40	..	..	
,, 8	e	11 6 0	..	..	Tremors.
	f	12 28 0	..	..	
,, 9	P	2 22 26	..	..	
	S	2 31 1	..	..	
	L	2 45 20	..	..	
	M	2 53 29	15	5	
1929—*contd.* Mar. 9	F	3 57 0	..	..	
,, 9	P	11 8 0	..	..	
	S	11 19 10	..	..	
	L	11 42 55	..	..	
	M	11 54 28	16	16	
	F	14 4 0	..	..	
,, 10	P	14 45 34	..	..	
	S	14 54 18	..	..	
	L	15 9 3	..	..	
	M	15 10 1	11	2	
	F	15 45 0	..	..	
,, 13	P	11 5 33	..	..	
	S	11 9 8	..	..	
	L	11 11 13	..	..	
	M	11 14 37	8	3	
	F	12 57 0	..	..	
,, 15	e	13 29 0	..	..	Tremors.
	f	13 53 0	..	..	
,, 16	P	12 35 52	..	..	
	S	12 39 1	..	..	Feeble shock.
	L	12 40 32	..	..	
	F	12 56 0	..	..	
,, 16	Pe	1 57 51	..	..	Do.
	S	2 3 11	..	..	
	L	2 7 48	..	..	
	F	2 21 0	..	..	
,, 18-19	P	23 31 32	..	..	
	S	23 40 7	..	..	
	L	23 54 19	..	..	
	M	0 2 37	12	4	
	F	0 30 0	..	..	
,, 19	P	21 13 22	..	..	
	S	21 27 20	..	..	
	L	22 11 50	..	..	
	M	22 42 19	20	6	
	F	23 30 0	..	..	
,, 20	e	19 2 0	..	..	Tremors.
	f	19 18 0	..	..	
,, 20	Pe	21 13 16	..	..	Feeble shock.
	M	21 40 48	16	4	
	F	22 24 0	..	..	
,, 21	P	2 56 41	..	..	
	S	3 6 47	..	..	
	L	3 25 33	..	..	
	M	4 8 51	20	6	
	F	5 15 0	..	..	

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) An.	Remarks.
1929—*contd.*		H. M. S.			
Mar. 22	P	3 12 5	..	..	
	S	3 16 27	..	..	
	L	3 19 38	..	..	
	M	3 21 29	17	12	
	F	4 4 0	..	..	
„ 23	P	20 9 33	..	..	
	S	20 17 53	..	..	
	L	20 31 11	..	..	
	M	20 34 5	15	4	
	F	21 15 0	..	..	
„ 25	P	3 52 9	..	..	
	S	3 56 25	..	..	
	L	3 59 17	..	..	
	M	3 59 40	6	5	
	F	4 34 0	..	..	
„ 25	P	14 59 54	..	..	
	S	15 4 10	..	..	
	Le	15 7 5	..	..	
	M	15 18 9	10	2	
	F	15 57 0	..	..	
„ 28	P	6 33 56	..	..	Very feeble local shock.
	F	6 34 21	..	..	
„ 28	P	20 35 59	..	..	
	S	20 47 9	..	..	
	L	21 11 9	..	..	
	M	21 17 18	18	5	
	F	22 22 0	..	..	
„ 31	e	5 34 0	..	..	Tremors.
	f	6 30 0	..	..	
„ 31	P	6 46 39	..	..	Very feeble local shock.
	F	6 46 54	..	..	
„ 31	P	20 27 55	..	..	
	S	20 36 31	..	..	
	L	20 51 58	..	..	
	M	20 58 28	14	6	
	F	21 39 0	..	..	
Apl. 1	P	9 2 56	..	..	Very feeble local shock.
	F	9 3 17	..	..	
„ 2	P	3 31 44	..	..	
	S	3 37 44	..	..	
	L	3 43 49	..	..	
	M	3 47 57	11	2	
	F	4 10 0	..	..	
„ 7	Pe	19 51 54	..	..	Distant feeble shock.
	L	20 54 12	..	..	
	M	21 4 11	20	3	

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) An.	Remarks.
1929—*contd.*		H. M. S.			
Apl. 7	F	22 38 0	..	..	
„ 8	P	10 25 6	..	..	
	S	10 31 35	..	..	
	L	10 39 20	..	..	
	M	10 40 41	10	3	
	F	12 27 0	..	..	
„ 9	P	4 2 13	..	..	
	S	4 9 53	..	..	
	L	Lost owing to extinction of light.	..	..	
	M		..	..	
	F		..	..	
„ 10-11	P	23 54 59	..	..	
	S	23 56 58	..	..	
	L	23 57 44	..	..	
	M	23 59 49	9	2	
	F	0 20 0	..	..	
„ 11	P	4 52 41	..	..	Feeble shock
	S	4 56 39	..	..	
	L	4 58 50	..	..	
	F	5 13 0	..	..	
„ 12	Pe	18 54 30	..	..	Feeble shock.
	S	19 1 23	..	..	
	L	19 10 18	..	..	
	F	19 30 0	..	..	
„ 13	Pe	13 19 1	..	..	Feeble shock
	M	13 30 32	10	1	
	F	14 10 0	..	..	
„ 13	P	21 25 0	..	..	
	S	21 34 20	..	..	
	L	21 51 22	..	..	
	M	22 3 20	20	3	
	F	22 55 0	..	..	
„ 13	e	23 37 0	..	..	Tremors.
	f	23 46 0	..	..	
„ 16	P	1 3 16	..	..	Feeble shock.
	S	1 12 16	..	..	
	L	1 28 16	..	..	
	F	1 51 0	..	..	
„ 16	P	1 56 34	..	..	Very feeble local shock.
	F	1 56 46	..	..	
„ 18	P	8 55 39	..	..	Very feeble shock.
	F	9 8 0	..	..	
„ 18	e	13 4 0	..	..	Tremors.
	f	14 1 0	..	..	
„ 22	P	1 44 37	..	..	Very feeble local shock.
	F	1 45 7	..	..	

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) An.	Remarks.
		H. M. S.			
1929—*contd.*					
Apl. 26	e	18 19 0	..	..	Tremors.
	f	18 45 0	..	..	
„ 27	Pe	21 17 32	..	..	Feeble shock.
	S	21 24 18	..	..	
	L	21 32 59	..	..	
	F	22 39 0	..	..	
„ 28	Pe	5 3 15	..	..	Feeble shock.
	S	5 6 51	..	..	
	L	5 9 0	..	..	
	F	5 37 0	..	..	
„ 30	Pe	18 53 18	..	..	
	S	18 58 12	..	..	
	L	19 2 4	..	..	
	M	19 14 9	11	3	
	F	20 3 0	..	..	
May 1	e	7 51 0	..	..	Tremors.
	f	8 53 0	..	..	
„ 1	P	11 27 46	..	..	Very feeble shock.
	F	11 54 0	..	..	
„ 1	P	15 43 7	..	..	
	S	15 47 27	..	..	
	L	15 50 17	..	..	
	M	15 51 27	26	1272	
	F	19 56 0	..	..	
„ 1	Pe	22 51 41	..	..	Feeble shock.
	F	23 15 0	..	..	
„ 3	Pe	8 18 5	..	..	Feeble shock.
	S	8 24 2	..	..	
	Le	8 34 15	..	..	
	F	11 49 0	..	..	
„ 3	P	16 25 7	..	..	
	S	16 29 30	..	..	
	L	16 32 32	..	..	
	M	16 36 37	13	4	
	F	17 8 0	..	..	
„ 4	P	4 44 21	..	..	Very feeble local shock.
	F	4 44 35	..	..	
„ 4	e	5 37 0	..	..	Tremors.
	f	5 57 0	..	..	
„ 5	P	17 3 17	..	..	
	S	17 8 38	..	..	
	L	17 13 13	..	..	
	M	17 17 30	12	3	
	F	18 29 0	..	..	
1929—*contd.* May 6	P	5 19 16	..	..	
	S	5 27 35	..	..	
	L	5 41 3	..	..	
	M	5 50 58	19	6	
	F	6 43 0	..	..	
„ 7	P	16 46 5	..	..	
	S	16 54 49	..	..	
	L	17 9 19	..	..	
	M	17 17 1	24	10	
	F	18 34 0	..	..	
„ 10	Pe	11 38 42	..	..	Feeble shock.
	F	11 54 0	..	..	
„ 10	Pe	17 37 16	..	..	Feeble shock.
	F	18 4 0	..	..	
„ 13	P	13 32 17	..	..	
	S	13 36 37	..	..	
	L	13 39 55	..	..	
	M	13 44 55	10	12	
	F	14 53 0	..	..	
„ 17	P	19 33 23	..	..	Very feeble shock.
	F	19 41 0	..	..	
„ 18	P	1 9 42	..	..	
	S	1 13 54	..	..	
	L	1 16 44	..	..	
	M	1 18 16	20	9	
	F	Lost while changing paper.			
„ 19	P	5 26 36	..	..	Feeble shock.
	F	6 0 0	..	..	
„ 20	P	5 5 48	..	..	
	S	5 16 12	..	..	
	L	5 37 8	..	..	
	M	5 41 34	21	16	
	F	7 52 0	..	..	
„ 21	P	16 44 57	..	..	
	S	16 52 32	..	..	
	L	17 3 37	..	..	
	M	17 17 33	16	18	
	F	19 38 0	..	..	
„ 22	P	20 24 35	..	..	
	S	20 33 37	..	..	
	L	20 49 40	..	..	
	M	21 0 6	20	10	
	F	22 12 0	..	..	
„ 22	e	23 9 0	..	..	Tremors.
	f	23 30 0	..	..	

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) An.	Remarks.
1929—*contd.*		H. M. S.			
May 24	P	18 48 0	..	..	
	S	18 51 21	..	..	
	L	18 53 3	..	..	
	M	18 53 50	10	4	
	F	19 25 0	..	..	
„ 25	Pe	10 44 36	..	..	Very feeble shock.
	F	Mixed with microseisms.			
„ 25	P	11 43 33	..	..	Do.
	F	12 53 0	..	..	
„ 26	P	8 52 34	..	..	
	S	9 0 32	..	..	
	L	9 13 6	..	..	
	M	9 13 45	12	2	
	F	10 18 0	..	..	
„ 26–27	P	22 54 23	..	..	
	S	23 5 9	..	..	
	L	23 27 16	..	..	
	M	23 46 16	22	345	
	F	3 14 0	..	..	
„ 30	P	10 3 3	..	..	
	S	10 16 23	..	..	
	L	10 52 13	..	..	
	M	11 25 56	17	7	
	F	14 14 0	..	..	
„ 31	Pe	0 25 8	..	..	Feeble shock.
	F	1 20 0	..	..	
June 1	e	16 17 0	..	..	Tremors.
	f	16 28 0	..	..	
„ 1	Pe	18 15 12	..	..	Feeble shock.
	M	18 29 58	15	4	
	F	19 9 0	..	..	
„ 2	P	21 47 56	..	..	
	S	21 55 31	..	..	
	L	22 6 31	..	..	
	M	22 8 24	10	3	
	F	23 8 0	..	..	
„ 3	P	20 35 11	..	..	
	S	20 39 31	..	..	
	L	20 42 18	..	..	
	M	20 43 45	10	10	
	F	22 36 0	..	..	
„ 4	P	7 10 30	..	..	
	S	7 14 55	..	..	
	L	7 18 6	..	..	
	M	7 22 26	10	2	
	F	7 57 0	..	..	
„ 4	P	15 24 39	..	..	
	S	15 31 26	..	..	
	L	15 40 6	..	..	
	M	15 43 26	11	5	
	F	16 18 0	..	..	
„ 8	Pe	6 20 36	..	..	Feeble shock.
	F	6 51 0	..	..	
„ 9	P	9 19 2	..	..	
	S	9 28 10	..	..	
	L	9 44 27	..	..	
	M	9 52 5	15	27	
	F	11 18 0	..	..	
„ 10	Pe	0 27 28	..	..	
	S	0 31 34	..	..	
	L	0 34 15	..	..	
	M	0 35 17	10	3	
	F	0 50 0	..	..	
„ 10—11	P	23 13 53	..	..	
	S	23 22 28	..	..	
	L	23 36 53	..	..	
	M	23 43 54	10	2	
	F	0 29 0	..	..	
„ 12	P	11 53 56	..	..	
	S	12 3 41	..	..	
	L	12 21 48	..	..	
	M	12 26 16	16	3	
	F	13 45 0	..	..	
„ 12	P	14 39 59	..	..	
	S	14 43 25	..	..	
	L	14 45 7	..	..	
	M	14 46 37	9	5	
	F	15 22 0	..	..	
„ 13	P	0 23 19	..	..	
	S	0 32 29	..	..	
	L	0 48 47	..	..	
	M	1 11 21	13	29	
	F	4 9 0	..	..	
„ 13	P	9 33 59	..	..	
	S	9 41 33	..	..	
	L	9 53 40	..	..	
	M	10 4 38	14	52	
	F	13 38 0	..	..	
„ 13	P	19 56 46	..	..	

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) Rn.	Remarks.
1929—*contd.*		H. M. S.			
June 13	S	20 4 28	..	..	
	L	20 15 53	..	..	
	M	20 20 14	10	2	
	F	21 40 0	..	..	
,, 13—14	P	23 10 4	..	..	
	S	23 17 32	..	..	
	L	23 28 36	..	..	
	M	23 38 5	16	7	
	F	1 8 0	..	..	
,, 15	Pe	19 44 53	..	..	Feeble shock.
	S	19 52 11	..	..	
	L	20 2 25	..	..	
	F	20 56 0	..	..	
,, 16—17	P	23 2 5	..	..	
	S	23 12 47	..	..	
	L	23 34 25	..	..	
	M	23 55 55	18	157	
	F	2 57 0	..	..	
,, 17	P	10 25 50	..	—	
	S	10 33 12	..	—	
	L	10 43 48	..	—	
	M	10 46 30	11	3	
	F	11 42 0	..	..	
,, 18	P	14 15 14	..	..	Very feeble shock.
	S	14 18 3	..	—	
	F	14 32 0	..	—	
,, 19	P	19 30 47	..	—	
	S	19 34 17	..	—	
	L	19 36 17	..	..	
	M	19 37 57	10	2	
	F	19 52 0	..	..	
,, 20	Pe	18 30 59	..	..	Feeble shock.
	S	18 38 17	..	..	
	L	18 47 21	..	..	
	F	19 17 0	..	..	
,, 20	e	20 42 0	..	..	Tremors.
	f	20 55 0	..	..	
,, 22	P	19 8 42	..	..	Feeble shock.
	L	19 45 2	..	..	
	M	19 45 52	20	4	
	F	20 8 0	..	..	
,, 26	e	7 14 0	..	..	Tremors.
	f	7 29 0	..	..	
,, 27	P	13 6 19	..	..	From Coiaba Seismograph No. 2 (N-S.).
	S	13 16 6	..	..	

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) An.	Remarks.
1929—*contd.*		H. M. S.			
June 27	L	13 34 44	..	..	
	M	13 45 6	..	..	
	F	16 10 0	..	..	
,, 30	P	2 54 18	..	..	
	S	3 1 42	..	..	
	L	3 12 12	..	..	
	M	3 22 24	17	11	
	F	4 36 0	..	..	
July 4	P	9 4 49	..	..	
	S	9 9 23	..	..	
	L	9 12 51	..	—	
	M	9 14 56	12	2	
	F	Mixed in the following shock.			
,, 4	P	9 27 41	..	—	
	S	9 33 6	..	..	
	L	9 38 1	..	..	
	M	9 47 16	11	6	
	F	11 6 0	..	..	
,, 4	P	12 10 6	..	..	
	S	12 14 31	..	..	
	L	12 17 29	..	..	
	M	12 18 51	12	2	
	F	12 35 0	..	..	
,, 4	P	14 3 0	..	..	Very feeble shock.
	F	14 33 0	..	..	
,, 5	P	14 31 49	..	..	
	S	14 42 17	..	..	
	L	15 3 24	..	..	
	M	15 12 46	17	45	
	F	17 39 0	..	..	
,, 5—6	P	22 49 3	..	..	
	S	22 59 33	..	..	
	L	23 20 50	..	..	
	M	23 25 36	19	25	
	F	0 21 0	..	—	
,, 6	P	2 16 38	..	..	
	S	Lost during shifting time.			
	L	2 48 26	..		
	M	2 56 18	18	10	
	F	3 51 0	..		
,, 4	e	10 42 0	..		Tremors.
	f	11 16 0	..		
,, 7—8	P	21 36 6	..		
	S	21 46 42	..		

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) An.	Remarks.
1929—*contd.*		H. M. S.			
July 7–8	L	22 8 12	..	..	
	M	22 16 46	18	159	
	F	0 51 0	..	..	
„ 8	e	19 57 0	..	..	Tremors.
	f	20 16 0	..	..	
„ 13	P	7 41 43	..	..	
	S	7 45 53	..	..	
	L	7 48 43	..	..	
	M	7 52 4	19	20	
	F	8 30 0	..	..	
„ 14	P	9 48 10	..	..	
	S	9 57 10	..	..	
	L	10 11 52	..	..	
	M	10 15 59	28	102	
	F	11 18 0	..	..	
„ 15	P	7 49 35	..	..	
	S	7 53 59	..	..	
	L	7 57 16	..	..	
	M	8 6 49	10	10	
	F	8 53 0	..	..	
„ 15	e	9 57 0	..	..	Tremors.
	f	10 10 0	..	..	
„ 16	P	23 9 15	..	..	Slight local shock.
	S	23 10 15	..	..	
	L	23 10 34	..	..	
	M	23 10 45	6	4	
	F	23 19 0	..	..	
„ 17	P	8 50 48	..	..	
	S	9 1 23	..	..	
	L	9 23 3	..	..	
	M	9 31 21	20	8	
	F	10 14 0	..	..	
„ 21	e	13 35 0	..	..	Tremors.
	f	14 2 0	..	..	
„ 23	P	18 54 26	..	..	
	S	19 4 59	..	..	
	L	19 26 1	..	..	
	M	19 31 0	19	10	
	F	20 8 0	..	..	
„ 25	P	0 21 41	..	..	
	S	0 26 41	..	..	
	L	0 30 29	..	..	
	M	0 34 59	10	6	
	F	1 6 0	..	..	

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) An.	Remarks.
1929—*contd.*		H. M. S.			
July 25	e	12 23 0	..	..	Tremors.
	f	12 47 0	..	..	
„ 25—26	e	23 47 0	..	..	Tremors.
	f	0 5 0	..	..	
„ 26—27	P	23 6 39	..	..	
	S	23 12 28	..	..	
	L	23 21 58	..	..	
	M	23 27 11	15	5	
	F	0 21 0	..	..	
Aug. 1	P	5 6 42	..	..	
	S	5 10 29	..	..	
	L	5 12 49	..	..	
	M	5 14 28	19	26	
	F	6 44 0	..	..	
„ 2	P	14 35 20	..	..	Feeble shock.
	F	14 47 0	..	..	
„ 2	Pe	17 33 29	..	..	Very feeble shock.
	Fe	17 40 0	..	..	
„ 3	e	19 11 0	..	..	Tremors.
	f	20 0 0	..	..	
„ 4	P	18 23 0	..	..	Very feeble shock.
	S	18 25 11	..	..	
	L	18 26 3	..	..	
	F	18 33 0	..	..	
„ 4—5	Pe	23 15 24	..	..	Very feeble shock.
	F	0 18 0	..	..	
„ 8	P	13 2 13	..	..	
	S	13 6 11	..	..	
	L	13 8 44	..	..	
	M	13 13 6	14	72	
	F	15 11 0	..	..	
„ 10	e	6 47 0	..	..	Tremors.
	f	7 11 0	..	..	
„ 14	e	3 10 0	..	..	Tremors.
	f	3 53 0	..	..	
„ 15	Pe	20 16 10	..	..	Distant feeble shock.
	F	22 9 0	..	..	
„ 16	Pe	21 37 57	..	..	
	S	21 45 26	..	..	
	L	21 56 16	..	..	
	M	22 1	12		
	F	22 47 0	..	..	
„ 16—17	Pe	23 8 38	..	..	
	S	23 12 20	..	..	

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) An.	Remarks.
1929—*contd.*		H. M. S.			
Aug. 16—17	L	23 14 8	..	..	
	M	23 15 59	10	2	
	F	0 31 0	..	..	
,, 17	e	20 23 0	..	..	Tremors.
	f	20 49 0	..	..	
,, 18	Pe	0 0 26	..	..	Distant feeble shock.
	M	1 11 32	22	6	
	F	1 59 0	..	..	
,, 18	e	8 59 0	..	..	Tremors.
	f	10 7 0	..	..	
,, 19	P	2 51 35	..	..	
	S	2 58 17	..	..	
	L	3 6 10	..	..	
	M	3 10 18	21	43	
	F	4 28 0	..	..	
,, 19	Pe	10 45 9	..	..	Feeble shock.
	F	11 19 0	..	..	
,, 19	P	20 57 48	..	..	
	S	21 3 21	..	..	
	L	21 8 28	..	..	
	M	21 12 47	12	5	
	F	21 44 0	..	..	
,, 20	P	16 48 46	..	..	
	S	16 53 54	..	..	
	L	16 57 46	..	..	
	M	17 5 21	20	12	
	F	18 36 0	..	..	
,, 28	P	19 2 12	..	..	
	S	19 10 47	..	..	
	L	19 25 2	..	..	
	M	19 33 32	14	11	
	F	21 5 0	..	..	
,, 29	P	20 0 29	..	..	
	S	20 8 19	..	..	
	L	20 16 51	..	..	
	M	20 20 1	11	2	
	F	21 14 0	..	..	
,, 30	e	4 59 0	..	..	Tremors.
	f	5 15 0	..	..	
,, 31	e	12 51 0	..	..	Tremors.
	f	13 28 0	..	..	
,, 31	e	19 8 0	..	..	Tremors.
	f	19 46 0	..	..	

Date.	Phase.	Times G. M. T.	Period (Sec.).	Amplitude (μ) An.	Remarks.
1929—*contd.*		H. M. S.			
Sept. 1	e	16 17 0	..	..	Tremors.
	f	17 40 0	..	..	
,, 3	P	12 10 33	..	..	
	S	12 13 55	..	..	
	L	12 15 37	..	..	
	M	12 17 3	19	16	
	F	13 25 0	..	..	
,, 4	P	22 30 15	..	..	
	S	22 34 34	..	..	
	L	22 37 12	..	..	
	M	22 41 1	12	4	
	F	23 21 0	..	..	
,, 9	P	3 34 1	..	..	
	S	3 39 37	..	..	
	L	3 45 7	..	..	
	M	3 46 2	22	6	
	F	4 51 0	..	..	
,, 9	Pe	8 10 41	..	..	Feeble shock.
	F	8 28 0	..	..	
,, 9	P	19 2 15	..	..	
	S	19 7 50	..	..	
	L	19 13 0	..	..	
	M	19 13 23	10	2	
	F	19 32 0	..	..	
,, 10	P	20 32 15	..	..	
	S	20 39 50	..	..	
	L	20 50 43	..	..	
	M	20 51 50	20	6	
	F	21 58 0	..	..	
,, 11	P	22 26 42	..	..	
	S	22 33 48	..	..	
	L	22 43 27	..	..	
	M	22 46 34	12	6	
	F	23 46 0	..	..	
,, 14	Pe	0 33 51	..	..	Feeble shock.
	F	1 0 0	..	..	
,, 15	Pe	13 18 36	..	..	Feeble shock.
	S	13 22 51	..	..	
	L	13 25 41	..	..	
	F	14 8 0	..	..	
,, 17	P	19 23 47	..	..	Feeble shock.
	S	19 36 32	..	..	
	L	20 7 52	..	..	
	M	20 32 7	19	9	
	F	22 54 0	..	..	

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) An.	Remarks.
1929—*contd.*		H. M. S.			
Sept. 21	P	19 4 13	..	..	Feeble shock.
	S	19 10 9	..	..	
	L	19 15 29	..	..	
	F	19 41 0	..	..	
,, 22	P	2 15 8	..	..	Very feeble local shock.
	F	2 15 24	..	..	
,, 24	e	1 45 0	..	..	Tremors.
	f	2 10 0	..	..	
,, 24	P	13 56 6	..	..	
	S	13 59 24	..	..	
	L	14 1 14	..	..	
	M	14 4 14	10	3	
	F	14 29 0	..	..	
,, 28	e	0 22 0	..	..	Tremors.
	f	1 8 0	..	..	
,, 28	Pe	15 13 14	..	..	Feeble shock.
	F	15 28 0	..	..	
,, 30	P	5 11 53	..	..	Very feeble shock.
	F	5 18 0	..	..	
Oct. 1	e	18 17 0	..	..	Tremors.
	f	18 30 0	..	..	
,, 2	e	10 13 0	..	..	Tremors.
	f	11 3 0	..	..	
,, 2	Pe	11 56 46	..	..	Feeble shock.
	S	12 0 48	..	..	
	L	12 4 0	..	..	
	F	12 16 0	..	..	
,, 5	P	2 45 26	..	..	
	S	2 52 14	..	..	
	L	3 0 52	..	..	
	M	3 5 4	20	9	
	F	4 49 0	..	..	
,, 5	P	17 11 30	..	..	
	S	17 20 52	..	..	
	L	17 38 23	..	..	
	M	17 47 1	20	17	
	F	18 48 0	..	..	
,, 5	P	19 19 54	..	..	Feeble shock.
	F	19 50 0	..	..	
,, 6	P	8 11 41	..	..	
	S	8 21 26	..	..	
	L	8 39 51	..	..	
	M	9 3 30	20	6	
	F	11 8 0	..	..	
1929—*contd.*		H. M. S.			
Oct. 7	e	16 10 0	..	..	Tremors.
	f	16 54 0	..	..	
,, 8	P	17 26 54	..	..	
	S	17 41 32	..	..	
	L	18 18 32	..	..	
	M	18 29 47	20	7	
	F	19 55 0	..	..	
,, 9	P	3 19 19	..	..	
	S	3 24 28	..	..	
	L	3 28 32	..	..	
	M	3 30 35	11	2	
	F	4 2 0	..	..	
,, 12	e	20 0 0	..	..	Tremors.
	f	20 11 0	..	..	
,, 13	e	17 13 0	..	..	Tremors.
	f	17 26 0	..	..	
,, 14	e	3 48 0	..	..	Tremors.
	f	4 32 0	..	..	
,, 14	P	10 23 12	..	..	
	S	10 33 43	..	..	
	L	10 54 37	..	..	
	M	11 7 43	14	3	
	F	12 12 0	..	..	
,, 16	P	20 32 54	..	..	
	S	20 37 25	..	..	
	L	20 40 43	..	..	
	M	20 41 20	8	36	
	F	22 30 0	..	..	
,, 18	P	10 52 29	..	..	
	S	10 56 1	..	..	
	L	10 57 51	..	..	
	M	10 59 17	10	3	
	F	11 26 0	..	..	
,, 18	e	11 37 0	..	..	Tremors.
	f	11 49 0	..	..	
,, 19	P	10 32 26	..	..	
	S	10 42 58	..	..	
	L	11 4 8	..	..	
	M	11 36 56	19	21	
	F	13 30 0	..	..	

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) An.	Remarks.
1929—*contd.*		H. M. S.			
Oct. 20	e	16 56 0	..	..	Tremors.
	f	17 24 0	..	..	
„ 21	Pe	10 52 43	..	..	Distant feeble shock.
	S	11 2 21	..	..	
	L	11 20 10	..	..	
	F	13 9 0	..	..	
„ 22	P	18 46 55	..	..	
	S	18 53 30	..	..	
	L	19 1 30	..	..	
	M	19 6 18	14	3	
	F	19 47 0	..	..	
„ 24	P	6 42 11	..	..	
	S	6 49 21	..	..	
	L	6 59 6	..	..	
	M	7 0 22	21	11	
	F	8 0 0	..	..	
„ 24	e	19 10 0	..	..	Tremors.
	f	19 22 0	..	..	
„ 27	e	16 51 0	..	..	Tremors.
	f	17 16 0	..	..	
„ 28	Pe	9 56 53	..	..	Feeble shock.
	S	10 2 23	..	..	
	L	10 7 5	..	..	
	F	11 11 0	..	..	
„ 29	P	5 57 59	..	..	
	S	6 1 39	..	..	
	L	6 3 49	..	..	
	M	6 11 47	17	5	
	F	7 9 0	..	..	
„ 29	Pe	10 30 20	..	..	Feeble shock.
	S	10 37 2	..	..	
	L	10 45 20	..	..	
	F	11 18 0	..	..	
„ 29	P	18 42 55	..	..	
	S	18 46 36	..	..	
	L	18 48 43	..	..	
	M	18 49 43	9	2	
	F	19 15 0	..	..	
Nov. 1	P	7 5 37	..	..	
	S	7 11 27	..	..	
	Le	7 17 6	..	..	
	M	7 17 56	12	2	
	F	7 38 0	..	..	
„ 4	e	16 26 0	..	..	Tremors.
	f	17 4 0	..	..	

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) An.	Remarks.
1929—*contd.*		H. M. S.			
Nov. 5	P	11 47 32	..	..	
	S	11 55 14	..	..	
	L	12 6 32	..	..	
	M	12 18 0	18	5	
	F	13 5 0	..	..	
„ 9	P	1 53 24	..	..	
	S	2 4 6	..	..	
	L	2 26 9	..	..	
	M	2 30 45	20	4	
	F	3 5 0	..	..	
„ 11	P	3 29 7	..	..	Very feeble local shock.
	F	3 30 27	..	..	
„ 11	P	5 53 52	..	..	Very feeble local shock.
	F	5 54 12	..	..	
„ 11	P	6 24 49	..	..	Very feeble local shock.
	F	6 25 12	..	..	
„ 11	P	10 49 10	..	..	Very feeble local shock.
	F	10 49 29	..	..	
„ 11	P	12 9 49	..	..	Very feeble local shock.
	F	12 10 24	..	..	
„ 13	Pe	0 43 45	..	..	
	S	0 50 46	..	..	
	L	0 59 55	..	..	
	M	1 8 0	25	9	
	F	2 1 0	..	..	
„ 14	P	20 54 31	..	..	Feeble shock.
	S	20 59 54	..	..	
	Le	21 4 49	..	..	
	F	21 36 0	..	..	
„ 15	P	19 1 36	..	..	
	S	19 9 24	..	..	
	L	19 20 1	..	..	
	M	19 23 17	30	107	
	F	23 15 0	..	..	
„ 16	Pe	22 58 7	..	..	Feeble shock.
	M	23 6 2	12	2	
	F	23 21 0	..	..	
„ 17	P	3 52 39	..	..	
	S	4 0 21	..	..	
	L	4 11 9	..	..	
	M	4 18 9	18	26	
	F	7 30 0	..	..	

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) An.	Remarks.
1929—*contd.*		H. M. S.			
Nov. 18-19	P	20 45 55	..	..	
	S	20 57 7	..	..	
	L	21 21 20	..	..	
	M	21 37 2	18	87	
	F	0 11 0	..	..	
„ 19	e	20 9 0	..	..	Tremors.
	f	20 20 0	..	..	
„ 20	P	7 43 54	..	..	Very feeble local shock.
	F	7 44 9	..	..	
„ 20	Pe	20 1 21	..	..	Feeble shock.
	S	20 4 51	..	..	
	L	20 6 50	..	..	
	F	20 31 0	..	..	
„ 21	e	22 5 0	..	..	Tremors.
	f	22 23 0	..	..	
„ 23	P	0 12 45	..	..	
	S	0 21 39	..	..	
	L	0 36 53	..	..	
	M	0 48 31	19	5	
	F	2 32 0	..	..	
„ 27	P	2 53 5	..	..	Very feeble local shock.
	F	2 53 25	..	..	
„ 27	P	4 36 6	..	..	Very feeble local shock.
	F	4 37 24	..	..	
„ 27	P	5 15 49	..	..	Very feeble local shock.
	F	5 16 24	..	..	
„ 27	P	11 50 52	..	..	Very feeble local shock.
	F	11 51 29	..	..	
„ 27	P	12 10 52	..	..	Very feeble local shock.
	F	12 11 19	..	..	
„ 30	P	4 44 3	..	..	Very feeble local shock.
	F	4 44 38	..	..	
Dec. 3	P	7 46 15	..	..	Feeble shock.
	Se	7 55 3	..	..	
	L	8 9 53	..	..	
	F	8 55 0	..	..	
„ 4	e	7 26 0	..	..	Tremors.
	f	8 3 0	..	..	
„ 6	P	10 6 44	..	..	Very feeble local shock.
	F	10 7 1	..	..	
„ 6	e	12 0 0	..	..	
	f	13 49 0	..		
„ 6	P	17 5 48	..	..	

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) An.	Remarks.
1929—*contd.*		H. M. S.			
Dec. 6	S	17 15 36	..	..	
	L	17 34 36	..	..	
	M	17 47 1	20	16	
	F	19 47 0	..	..	
„ 6	P	20 40 15	..	..	
	S	20 50 5	..	..	
	L	21 8 35	..	..	
	M	21 21 45	20	11	
	F	23 13 0	..	..	
„ 7	Pe	10 4 13	..	..	Feeble shock.
	M	10 9 59	10	2	
	F	10 17 0	..	..	
„ 9	P	6 12 57	..	..	Feeble shock.
		6 17 48	..	..	
	L	6 21 25	..	..	
	F	6 46 0	..	..	
„ 9	P	6 55 31	..	..	
	S	7 0 6	..	..	
	L	7 3 17	..	..	
	M	7 7 28	20	99	
	F	10 37 0	..	..	
„ 10	P	17 59 5	..	..	Feeble shock.
	S	18 2 27	..	..	
	L	18 4 13	..	..	
	F	18 17 0	..	..	
„ 13	e	10 0 0	..	..	Tremors.
	f	11 44 0	..	..	
„ 14	P	4 2 28	..	..	Very feeble local shock.
	F	4 3 0	..	..	
„ 15	P	20 2 3	..	..	
	S	20 5 22	..	..	
	L	20 7 1	..	..	
	M	20 7 26	10	2	
	F	20 28 0	..	..	
„ 17	P	11 10 49	..	..	
	S	11 20 35	..	..	
	L	11 39 1	..	..	
	M	11 44 1	32	2833	
	F	17 5 0	..	..	
„ 18	P	7 6 55	..	..	
	S	7 13 43	..	..	
	L	7 22 8	..	..	
	M	7 26 2	18	8	
	F	8 4 0	..	..	

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) An.	Remarks.	Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) An.	Remarks.
1929—*contd.*		H. M. S.				1929—*contd.*		H. M. S.			
Dec. 18	e	13 46 0	..	..	Tremors.	Dec. 27	M	14 7 12	10	1	
	f	14 10 0	..	..			F	14 35 0	..	..	
„ 19	e	15 34 0	..	..	Tremors.	„ 28	e	2 7 0	..	..	Tremors.
	f	15 44 0	..	..			f	2 37 0	..	..	
„ 20	e	10 59 0	..	..	Tremors.						
	f	11 42 0	..	..		„ 28	Pe	11 45 18	..	..	
							S	11 54 35	...	..	
„ 21	e	12 38 0	..	..	Tremors.		L	12 11 32	..	..	
	f	13 12 0	..	..			M	12 18 54	19	6	
„ 24	Pe	20 6 54	..	..	Feeble shock.		F	13 25 0	..	..	
	F	20 17 0	..	..							
„ 24	e	21 9 0	..	..	Tremors.	„ 31	P	1 14 48	..	..	
	f	21 19 0	..	..			S	1 23 41	..	..	
„ 27	P	13 40 56	..	..			L	1 39 45	..	..	
	S	13 49 6	..	..			M	1 40 12	19	4	
	L	14 2 18	..	..			F	2 27 0	..	..	

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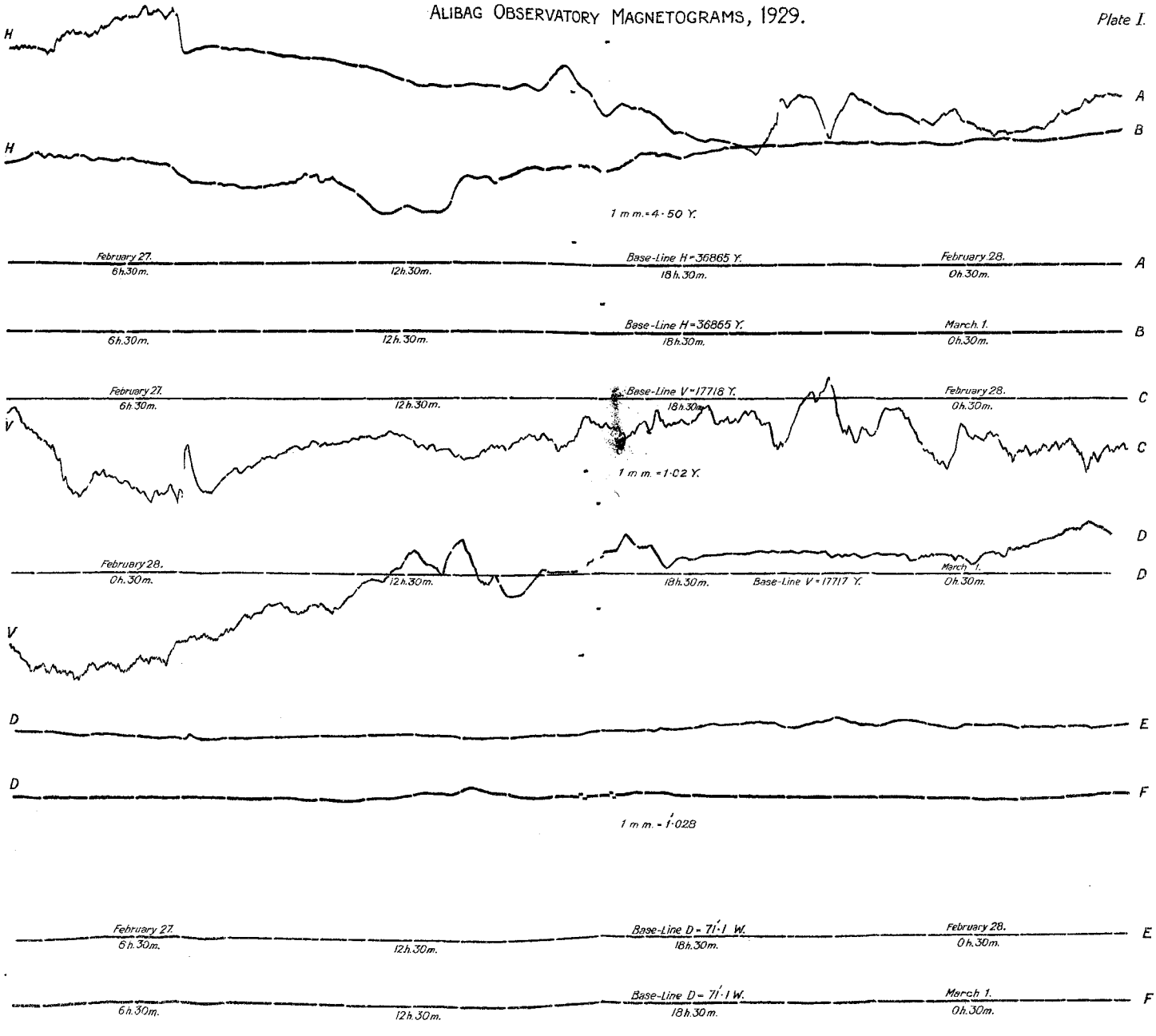
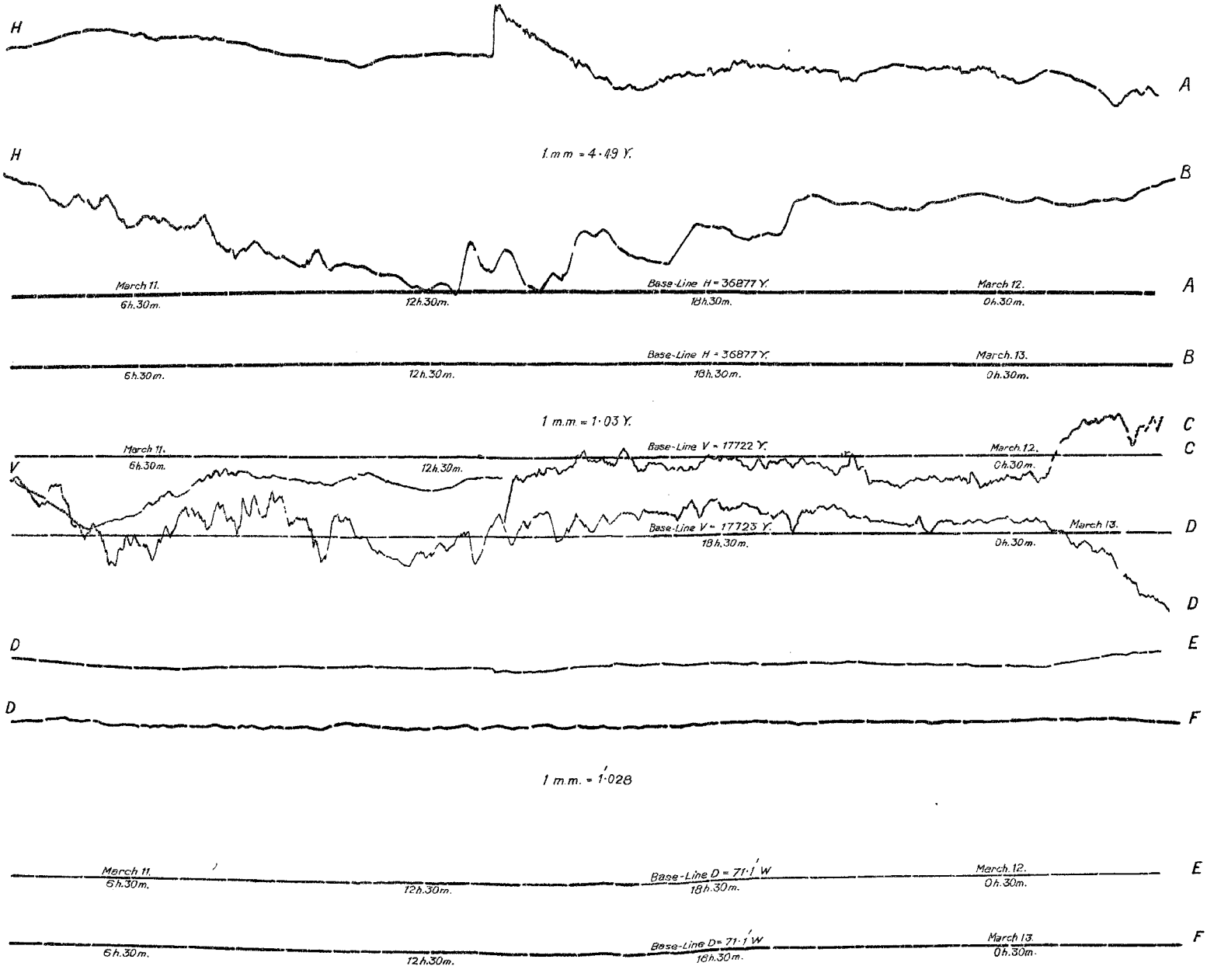
ALIBAG OBSERVATORY MAGNETOGRAMS, 1929.

Plate I.



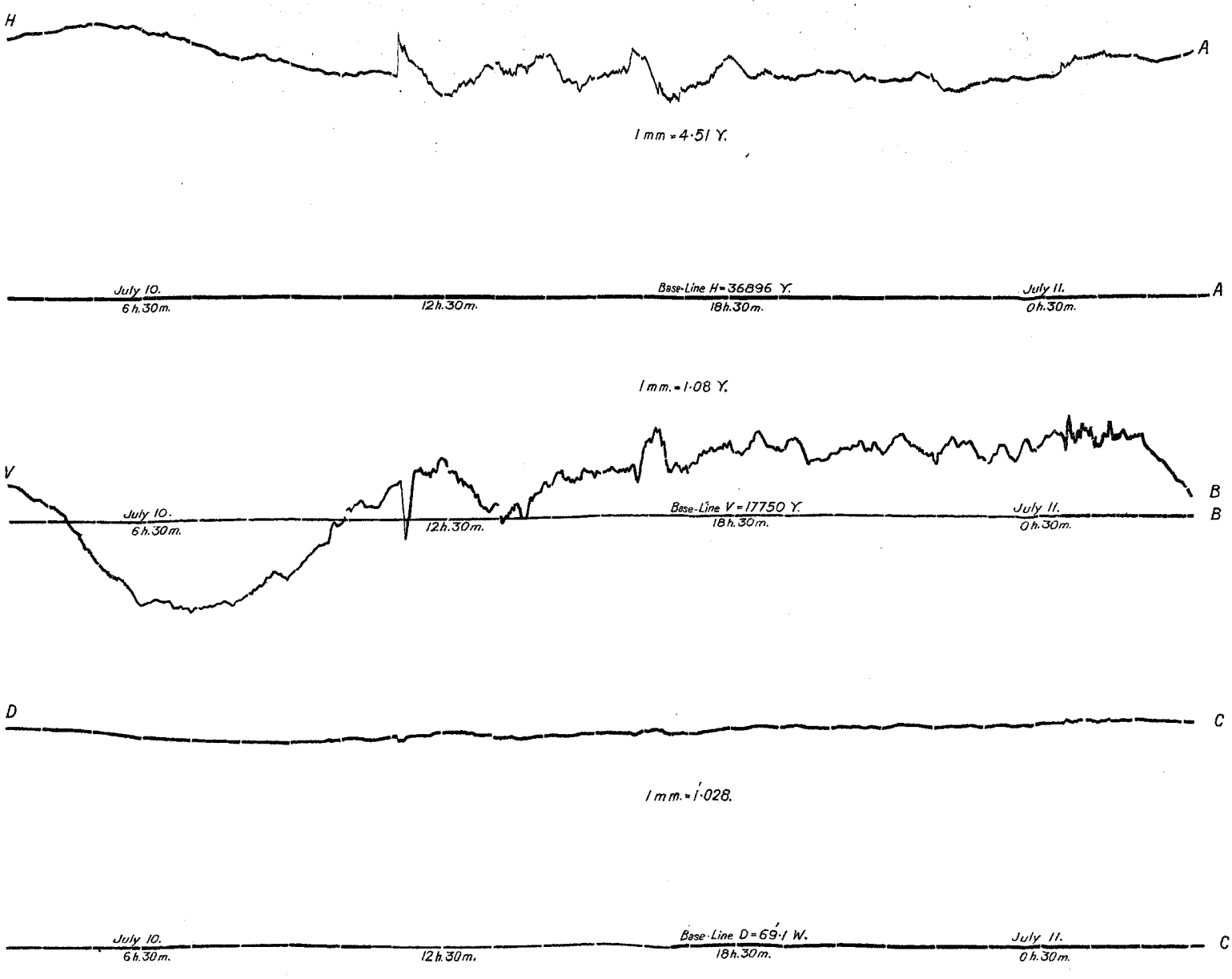
ALIBAG OBSERVATORY MAGNETOGRAMS, 1929.

Plate II.



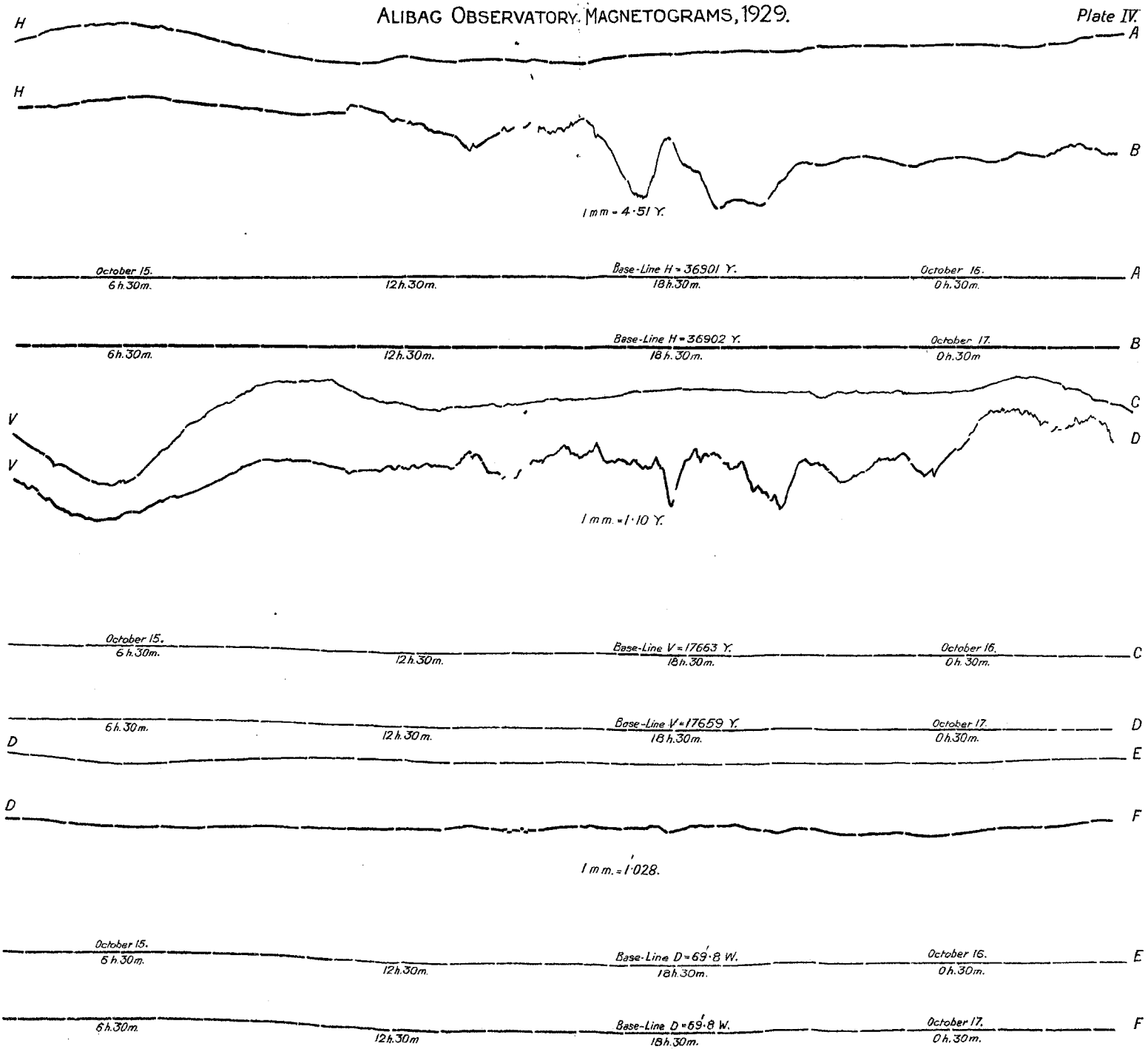
ALIBAG OBSERVATORY MAGNETOGRAMS, 1929.

Plate III.



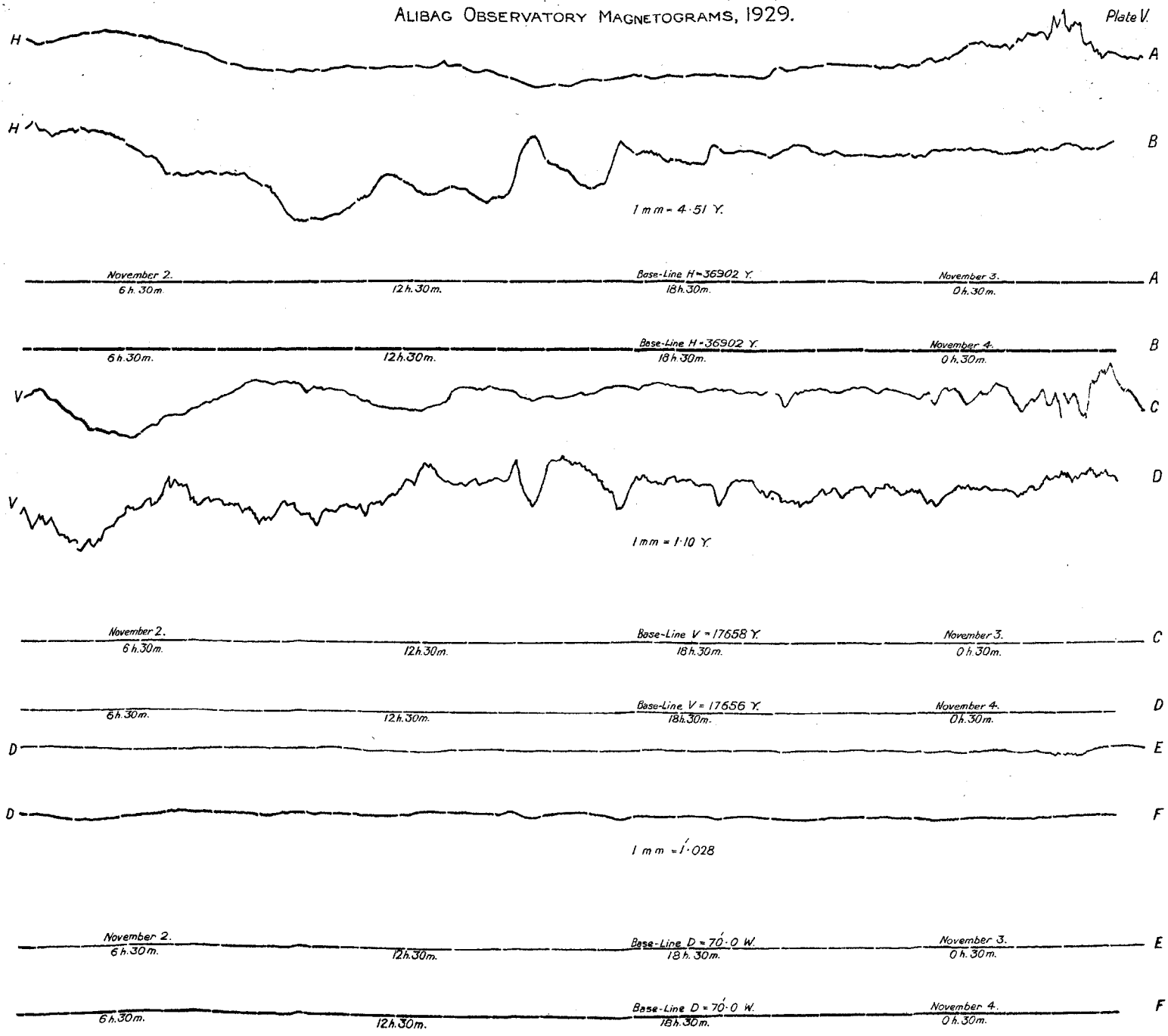
ALIBAG OBSERVATORY. MAGNETOGRAMS, 1929.

Plate IV.



ALIBAG OBSERVATORY MAGNETOGRAMS, 1929.

Plate V.



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